PB85-162477

Acid Precipitation in North America 1980, 1981 and 1982 Annual Data Summaries from Acid Deposition System Data Base

(U.S.) Interagency Task Force on
Acid Precipitation, Washington, DC

Prepared for

Environmental Monitoring Systems Lab.
Research Triangle Park, NC

Dec 84

U.S. Department of Commerce
National Technical Information Service
NTIS

United States
Environmental Protection
Agency

Office of Research and
Development
Washington DC 20460

EPA-600/7-84-097
December 1984

EPA

Acid Deposition Annual Data Summaries 1980, 1981, and 1982

PB85-162477

United States Department of Agriculture

National Oceanic and Atmospheric Administration
NOAA
U.S. Department of Commerce

National Acid Precipitation Assessment Program

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

TECHNICAL REPORT DATA

(Please read Instructions on the reverse before completing)

1. REPORT NO.
EPA/600/7-84/097

2.

3. RECIPIENT'S ACCESSION NO.
PB85 162477/AS

4. TITLE AND SUBTITLE
Acid Precipitation in North America: 1980, 1981 and 1932 Annual Data Summaries Based on Acid Deposition System Data Base

5. REPORT DATE
December 1984

6. PERFORMING ORGANIZATION CODE

7. AUTHOR(S)
A.R. Olsen/C.R. Watson - Pacific Northwest Laboratory
Richland, Washington

8. PERFORMING ORGANIZATION REPORT NO.

9. PERFORMING ORGANIZATION NAME AND ADDRESS
Pacific Northwest Laboratory
Richland, Washington

10. PROGRAM ELEMENT NO.

11. CONTRACT/GRANT NO.
IAG AD89F3404

12. SPONSORING AGENCY NAME AND ADDRESS
Environmental Monitoring Systems Laboratory
Office of Research and Development
U.S. Environmental Protection Agency
Research Triangle Park, NC 27711

13. TYPE OF REPORT AND PERIOD COVERED

14. SPONSORING AGENCY CODE
EPA/600/08

15. SUPPLEMENTARY NOTES

16. ABSTRACT

The Acid Deposition System (ADS) data base for North American wet deposition data is used to provide an overview of the major North American monitoring networks: NADP, CANSAP, APN, MAP3S/PCN, EPRI/SURE, UAPSP and APIOS daily and cumulative. Individual site annual statistical summaries for calendar years 1980, 1981, and 1982 are given for pH, specific conductance, hydrogen ion (derived from pH) and ion species sulfate, nitrate, ammonium, calcium, chloride, sodium, magnesium and potassium. The summaries are prepared under common valid sample screening criteria and four criteria used to determine the reporting of individual sites. Based on the annual summaries, 1980, 1981, and 1982, North American spatial isopleth maps are constructed for precipitation weighted mean pH, sulfate ion and nitrate ion concentrations and annual deposition of hydrogen, sulfate and nitrage ion species.

The Acid Deposition System (ADS) for data storage and statistical reporting of atmospheric deposition data has been established by the EPA at the Pacific Northwest Laboratory (PNL). ADS provides an integrated centralized data bank for data collected by all atmospheric deposition monitoring networks in North America. The centralized data base facilitates access to deposition data collected by different organizations; provides annual inventories of available data; and maintains the data for the assessment of long-term national trends.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Acid Deposition Data Summary Acid Rain Wet Deposition		

18. DISTRIBUTION STATEMENT RELEASE TO PUBLIC	**19. SECURITY CLASS** *(This Report)* UNCLASSIFIED	**21. NO. OF PAGES** 233
	20. SECURITY CLASS *(This page)* UNCLASSIFIED	**22. PRICE**

EPA Form 2220-1 (9-73)

EPA-600/7-84-097
November 1984

ACID DEPOSITION ANNUAL DATA SUMMARIES
1980, 1981, and 1982

AR Olsen
CR Watson

August 1984

Prepared for
the U.S. Environmental Protection Agency
under a Related Services Agreement
with the U.S. Department of Energy
Contract DE-AC06-76RLO 1830

Pacific Northwest Laboratory
Richland, Washington 99352

NOTICE

This document has been reviewed in accordance with U.S. Environmental Protection Agency policy and approved for publication. Mention of trade names or commercial products does not constitute endorsement or recommendation for use.

Preface:

This is a report of the Interagency Task Force on Acid Precipitation. The Task Force was created under the Acid Precipitation Act of 1980 (Title VII of P.L. 96-294) to conduct a comprehensive research program on the causes and effects of acid precipitation, and on means by which any adverse effects might be reduced.

The research program is managed through a series of task groups, each of which is responsible for planning and conducting a segment of the program. A lead agency has been assigned for each of the task groups as follows:

Task Group	Lead Agency
A. Natural Sources	Nat'l Oceanic & Atmospheric Administration
B. Man-made Sources	Department of Energy
C. Atmospheric Processes	Nat'l Oceanic & Atmospheric Administration
D. Deposition Monitoring	Department of the Interior
E. Aquatic Effects	Environmental Protection Agency
F. Terrestrial Effects	Department of Agriculture
G. Effects on Materials & Cultural Resources	Department of the Interior
H. Control Technologies	Environmental Protection Agency
I. Assessments	Environmental Protection Agency
J. International Activities	Department of State

The National Acid Precipitation Assessment Program is intended to focus federally-funded research on the timely development of a firmer scientific basis for policy decisions related to acid precipitation. Reports are released both as Task Force reports on multi-agency efforts and as individual agency reports on single-agency projects.

This report is a product of the Deposition Monitoring Task Group. The members of the task group are as follows:

Members:

Lead agency: U.S. Geological Survey

U.S. Environmental Protection Agency
U.S. Department of Energy
Nat'l Oceanic & Atmospheric Administration
Cooperative State Research Service
U.S. Forest Service
National Park Service
U.S. Bureau of Land Management
Tennessee Valley Authority
Pacific Northwest National Laboratory
Brookhaven Nat'l Laboratory
National Bureau of Standards
U.S. Bureau of Reclamation
U.S. Fish and Wildlife Service
U.S. Ofc. of Surface Mining & Reclamation

ABSTRACT

The Acid Deposition System (ADS) data base for North American wet deposition data is used to present an overview of the major North American monitoring networks: NADP, CANSAP, APN, MAP3S/PCN, EPRI/SURE, UAPSP and APIOS. By individual site, annual statistical summaries for calendar years 1980, 1981 and 1982 are provided for pH, specific conductance, hydrogen ion (derived from pH) and ion species sulfate, nitrate, ammonium, calcium, chloride, sodium, magnesium and potassium. Unified screening criteria for determining inclusion of individual samples are applied across the networks. An annual summary for a site is reported only when percent precipitation monitoring, percent total precipitation included, percent sample coverage and percent annual collection efficiency meet or exceed specific criteria. Based on the annual summaries, 1980, 1981 and 1982, North American spatial isopleth maps are constructed for precipitation weighted mean pH, sulfate ion and nitrate ion concentrations, and annual deposition of hydrogen, sulfate and nitrate ion species.

The Acid Deposition System (ADS) for data storage and statistical reporting of atmospheric deposition data has been established by the EPA at the Pacific Northwest Laboratory (PNL). ADS provides an integrated centralized data bank for data collected by all atmospheric deposition monitoring networks in North America. The centralized data base facilitates access to deposition data collected by different organizations, provides annual inventories of available data, and maintains the data for the assessment of long-term national trends.

ACKNOWLEDGMENTS

The information contained in this report is the result of work by individuals from many organizations. Each site is operated by dedicated individuals. Each network has a staff who coordinate the network operation, complete chemical analyses, and computerize and screen the data. We depended heavily on the following individuals from the various networks: Jim Gibson, Dave Bigelow and Van Baker for NADP; Terry Dana for MAP3S/PCN; Peter Mueller, Mary Ann Allan, Charlene Boyce, and Leo Topol for EPRI/SURE and UAPSP; Maris Lusis, Walter Chan and Richard Kirk for APIOS; and Malcolm Still and Allain Sorois for CANSAP and APN.

Individuals directly involved in the production of the annual report are Janis Littlefield, Dave Engel, Jim McIntyre, Julie Packard, Lauren Shaw, and Raif Copeland, who all contributed their expertise in computing. Sharon Popp typed, organized and produced the report while ignoring our idiosyncrasies. We also owe our thanks to a number of researchers associated with NAPAP, who took the time to advise us on problems connected with wet deposition data and to comment on earlier drafts of this report. Finally, the report has benefited from the guidance we have received from our EPA project officer, Pete Finkelstein. Gerry Akland, Data Management and Analysis Division, EMSL, EPA, has supported our efforts from the beginning.

CONTENTS

PREFACE iii

ABSTRACT iv

ACKNOWLEDGMENTS v

1. INTRODUCTION. 1.1

2. ADS STRUCTURE AND PARTICIPATING MONITORING NETWORKS 2.1

MONITORING NETWORK DESCRIPTIONS. 2.2

National Atmospheric Deposition Program Monitoring Network. 2.2

MAP3S Precipitation Chemistry Network 2.4

The Canadian Network for Sampling Precipitation 2.4

Canadian Air and Precipitation Monitoring Network . . . 2.5

Acidic Precipitation in Ontario Study 2.5

EPRI Sulfate Regional Experiment Network. 2.6

Utility Acid Precipitation Study Program Network. . . . 2.6

NETWORK INTEGRATION AND SITE REVISION HISTORY. 2.7

EXPANSION AND UPDATE OF ADS. 2.7

3. PREPARATION OF STATISTICAL SUMMARIES. 3.1

DATA QUALITY 3.1

DEFINITIONS OF "ANNUAL PERIOD" AND "PRECIPITATION OCCURRENCE" 3.2

VALID SAMPLE CRITERIA. 3.3

CRITERIA FOR REPORTING SITE ANNUAL SUMMARY 3.4

APPLICATION OF SCREENING CRITERIA. 3.5

4. STATISTICAL SUMMARIES 4.1

INDIVIDUAL SAMPLE CHARACTERISTICS. 4.1

ANNUAL STATISTICAL SUMMARIES 4.7

SPATIAL PATTERNS 4.11

Preceding page blank

REFERENCES. R.1

APPENDIX A: ADS SITES, ORDERED BY STATE OR PROVINCE, AND THEIR OPERATING HISTORY. A.1

APPENDIX B: 1980 ANNUAL ISOPLETH MAPS FOR pH, SO_4^{2-} AND NO_3^- PRECIPITATION WEIGHTED MEAN CONCENTRATIONS AND H^+, SO_4^{2-} AND NO_3^- DEPOSITION. B.1

APPENDIX C: 1981 ANNUAL ISOPLETH MAPS FOR pH, SO_4^{2-} AND NO_3^- PRECIPITATION WEIGHTED MEAN CONCENTRATIONS AND H^+, SO_4^{2-} AND NO_3^- DEPOSITION. C.1

APPENDIX D: 1982 ANNUAL ISOPLETH MAPS FOR pH, SO_4^{2-} AND NO_3^- PRECIPITATION WEIGHTED MEAN CONCENTRATIONS AND H^+, SO_4^{2-} AND NO_3^- DEPOSITION. D.1

APPENDIX E: 1980, 1981 AND 1982 ANNUAL STATISTICAL SUMMARIES FOR pH, SPECIFIC CONDUCTANCE, HYDROGEN ION AND MAJOR ION SPECIES, BY INDIVIDUAL MONITORING SITE . . E.1

FIGURES

2.1 NADP sites identified by ADS code 2.8

2.2 MAP3S sites identified by ADS code. 2.8

2.3 CANSAP sites identified by ADS code 2.9

2.4 APN sites identified by ADS code 2.9

2.5 APIOS-C sites identified by ADS code 2.10

2.6 APIOS-D sites identified by ADS code 2.10

2.7 EPRI/SURE sites identified by ADS code. 2.11

2.8 UAPSP sites identified by ADS code. 2.11

4.1 Time series plot of sample pH at MAP3S/PCN Illinois site from November 1977 to December 1981. . . . . 4.3

4.2 Time series plot of sample pH at NADP Bondville site from February 1979 to June 1981. . . . . 4.3

4.3 Time series plot of sample pH at CANSAP Simcoe site from May 1977 to December 1981 . . . . 4.3

4.4 Time series plot of sulfate ion concentration (mg/l) at MAP3S/PCN Illinois site from November 1977 to December 1981. . . . . 4.4

4.5 Time series plot of sulfate ion concentration (mg/l) at NADP Bondville site from February 1979 to June 1981 . . . . . . 4.4

4.6 Time series plot of sulfate ion concentration (mg/l) at CANSAP Simcoe site from May 1977 to December 1981 . . . . 4.4

4.7 Plot of sample pH against sample volume (l) at the MAP3S/PCN Illinois site from November 1977 to December 1981. . . . . 4.5

4.8 Plot of sample nitrate ion concentrations (mg/l) against sulfate ion concentrations (mg/l) at the MAP3S/PCN Illinois site from November 1977 to December 1981. . . . . 4.5

4.9 Plot of sample nitrate ion concentrations (mg/l) against sulfate ion concentrations (mg/l) at the NADP Bondville site from February 1979 to June 1981. . . . . 4.5

4.10 Plot of sample pH against sulfate ion concentration (mg/l) at the MAP3S/PCN Illinois site from November 1977 to December 1981. . . . . 4.6

4.11 Plot of sample pH against sulfate ion concentration (mg/l) at the NADP Bondville site from February 1979 to June 1981. . . 4.6

4.12 Plot of sample pH against sulfate ion concentration (mg/l) at the CANSAP Simcoe site from May 1977 to December 1981. . . . 4.6

4.13 Relationship between sulfate ion and nitrate ion concentration for 1982 annual precipitation-weighted average site summary . . 4.8

4.14 Relationship between pH and sulfate ion concentration for 1982 annual precipitation-weighted average site summary . . 4.8

4.15 Relationship between pH and nitrate ion concentration for 1982 annual precipitation-weighted average site summary . . 4.9

4.16 Relationship between sulfate ion and nitrate ion deposition for 1982 annual site summaries. 4.9

4.17 Relationship between sulfate ion and hydrogen ion deposition for 1982 annual site summaries. 4.10

4.18 Relationship between nitrate ion and hydrogen ion deposition for 1982 annual site summaries. 4.10

TABLES

2.1 Description of Monitoring Networks Currently in ADS 2.3

3.1 Number of Sites in 1982 Classified by Site Screening Criteria and Network 3.6

ACID PRECIPITATION IN NORTH AMERICA:
1980, 1981 and 1982 ANNUAL DATA SUMMARIES
FROM ACID DEPOSITION SYSTEM DATA BASE

1.0 INTRODUCTION

The Acid Deposition System (ADS) for statistical reporting of acid precipitation data has been established by the U.S. Environmental Protection Agency. The ADS data base system provides an integrated, centralized data bank for atmospheric deposition data collected by all monitoring networks in North America. The purpose of the centralized data base is (1) to facilitate access to deposition data collected by different organizations, (2) to provide an annual inventory of available data, and (3) to maintain the data for the assessment of long-term national trends. A complete description of ADS is available in a system design and user's code manual by Watson and Olsen (1984).

This report describes wet deposition data currently being collected in North America that is contained in the ADS data base system. Interpretative statistical analyses are not a focus; however, users of the report will learn about major wet deposition monitoring networks in North America, the extent of their geographic coverage and general characteristics of wet deposition for the years 1980, 1981 and 1982. Specifically, the following information is provided:

- Monitoring networks contributing wet deposition data to ADS are described. This includes geographical maps giving the location of each network's sites. For each site, information is provided on location and sampling, including history of any changes in protocol.
- A statistical summary for each site, for calendar years 1980, 1981 and 1982, is presented by major ion species. Included are specific conductance, pH, and ion species concentration and deposition for hydrogen, sulfate, nitrate, ammonium, calcium, sodium, chloride, magnesium and potassium. The tabular summaries are complemented with examples for specific monitoring sites.
- Selected sites with multiple years of operation are used to illustrate temporal patterns associated with wet deposition monitoring data.

- Spatial characteristics of precipitation-weighted concentrations and depositions for pH, hydrogen, sulfate and nitrate ion species are discussed. Data are combined from multiple networks, and kriging, a statistical procedure for spatial estimation, is applied to produce isopleth maps. Spatial analyses are completed for the calendar years 1980, 1981 and 1982.
- Interrelationships among ion species are explored for annual precipitation weighted concentrations and depositions.

2. ADS STRUCTURE AND PARTICIPATING MONITORING NETWORKS

The Acid Deposition System (ADS) is designed to integrate wet deposition data from multiple precipitation chemistry monitoring networks. As a centralized source for wet deposition data, ADS facilitates access to North American data for the study of long-term spatial and temporal patterns. To accomplish this, ADS has implemented procedures to indicate clearly the colocation of sampling instruments and to track all samples collected at the same physical location even when different networks are involved. ADS does this while maintaining the integrity and identification of individual contributing networks.

Initially, emphasis in ADS has been directed at integrating data from existing routine, long-term networks. Several reports describe wet deposition networks and the data generated by them, e.g., Eriksson (1952), Niemann et al. (1979), Miller (1981), and Wisniewski and Kinsman (1982). Not all of the networks described in these reports have submitted their data to be included in ADS. This report includes data from:

- NADP (National Atmospheric Deposition Program)
- MAP3S/PCN (the MAP3S Precipitation Chemistry Network)
- CANSAP (Canadian Network for Sampling Precipitation)
- APN (the Canadian Air and Precipitation Monitoring Network)
- APIOS (Acidic Precipitation In Ontario Study)
- EPRI/SURE (EPRI Sulfate Regional Experiment precipitation chemistry monitoring program)
- UAPSP (Utility Acid Precipitation Study Program).

Other networks and organizations are submitting data for inclusion in ADS and subsequent reports will include these additional networks.

Networks are designed to satisfy the sponsoring organization's scientific objectives and available financial resources. Sampling protocols and geographic coverage of the networks differ. Interpolation of data summaries presented requires a knowledge of each contributing network's characteristics. In particular, the network's sampling periods and sample collectors are especially important when comparing among sites or when assessing variability of ion species concentrations. The next section briefly describes the networks in ADS.

MONITORING NETWORK DESCRIPTIONS

A brief description of each network is given below to provide an overview of how the data in ADS was originally collected. Table 2.1 summarizes the characteristics of the networks. For specific protocols, individual network publications should be consulted.

National Atmospheric Deposition Program Monitoring Network

The National Atmospheric Deposition Program (NADP) was organized by the North Central Region of the State Agricultural Experiment Stations to address the problem of atmospheric deposition and its effects on agriculture, forest, range lands, and fresh water streams and lakes. The major objective of the program is to determine the magnitude of the atmospheric deposition of both beneficial and injurious substances and subsequently the effect of these substances on terrestrial and aquatic ecosystems. It is necessary that these measurements be carried out over an extended period of time in order to determine long-term trends. For this purpose, NADP established a nationally distributed regional atmospheric deposition monitoring network. The network started operation in 1978 with 22 sampling sites. The number of sites gradually increased to 86 active sites in July 1981 and currently involves over 100 active sites (NADP 1983). The locations of the NADP sampling sites are given in Figure 2.1.

The National Trends Networks (NTN) being established by the Interagency Task Force on Acid Deposition, which includes many existing NADP sites, conforms to NADP protocol and is coordinated through the NADP coordinator's office. In subsequent annual reports, NTN will be identified as a network as well as individual NTN sites.

NADP uses a weekly sampling period, with the sample start on Tuesdays. The sampler used is the Aerochem Metrics 301 wet/dry collector. Sites are located in areas not strongly influenced by specific local sources of atmospheric pollution. Each sample is measured for pH, specific conductance,

TABLE 2.1. Description of Monitoring Networks Currently in ADS.

Network	Geographical Area	Period of Operation and Number of Sites	Number of Sites Past or Current	Sampling Period	Measurements
National Atmospheric Deposition Program (NADP)	National Coverage of United States	Began in 1978 with 22 sites. Operation continuing for increased number of sites.	117	Weekly samples collected each Tuesday.	pH, specific conductance, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, PO_4^{3-}, K^+, Na^+, CA^{2+}, Mg^{2+}.
MAP3S Precipitation Chemistry Network (MAP3S/PCN)	Eastern United States	Began operation in 1976 with 5 sites. Operation continuing	9	Event samples.	pH, specific conductance, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, K^+, Na^+, Ca^{2+}, Mg^{2+}, PO_4^{3-}, NO_2^-, SO_3^{2-}
Canadian Network for Sampling Precipitation (CANSAP)	National Coverage of Canada	Began in 1977 with 45 sites. Operation continuing.	62	Monthly samples collected on last day of month.	pH, specific conductance, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, K^+, Na^+, Ca^{2+}, Mg^{2+}
Canadian Air and Precipitation Monitoring Network (APN)	Eastern Canada	Began in November 1978 with 5 sites. Operation continuing.	9	Daily samples.	pH, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, K^+, Na^+, Ca^{2+}, Mg^{2+}, total phosphorus
Acidic Precipitation In Ontario Study (APIOS) Cumulative Network	Ontario Province	Began in September 1980. Operation continuing.	36	Monthly samples.	pH, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, K^+, Na^+, Ca^{2+}, Mg^{2+}, total Kjeldahl nitrogen, total phosphorus and trace metals: Zn, Fe, Ni, Cu, Pb, Al, Cd, Mn and V.
Acidic Precipitation In Ontario Study (APIOS) Daily Network	Ontario Province	Began in September 1980. Operation continuing.	16	Daily samples.	pH, specific conductance, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, Na^+, Ca^{2+}, Mg^{2+}, acidity.
EPRI Sulfate Regional Experiment Network EPRI/SURE	Eastern United States	Operated from October 1978 to September 1981. Nine sites in 1979 and 1980.	18	Event samples.	pH, specific conductance, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, K^+, Na^+, Ca^{2+}, Mg^{2+}, PO_4^{3-}, Al^{3+}, strong acids, total acids, total organic carbon
Utility Acid Precipitation Study Program (UAPSP)	Eastern and Central United States	Began operation in October 1981.	19	Daily samples.	pH, specific conductance, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, K^+, Na^+, Ca^{2+}, Mg^{2+}, PO_4^{3-}, strong acids, total acids

acidity/alkalinity, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, PO_4^{3-}, K^+, Na^+, Ca^{2+} and Mg^{2+}. In addition, a colocated standard rain gage is used to measure precipitation depth. The chemical analyses are performed by the Illinois State Water Survey.

MAP3S Precipitation Chemistry Network (MAP3S/PCN)

MAP3S/PCN was initiated in 1976 with the objective of creating a long-term, high-quality data base for the development of regional transport and deposition models (MAP3S 1982). This nine-station network covers the northeastern United States (see Figure 2.2) and was chosen to maximize information on regional precipitation chemistry, subject to the constraints of financial limitations and on the total number of stations and the geographical locations of skilled operating groups.

Precipitation samples are obtained on an event basis, "event" being defined as any 24-hour period during which precipitation occurred. Samples were initially collected on a collector designed by Battelle-Northwest; from late 1979 to early 1981, all stations were converted to use HASL collectors. Chemical analysis of the samples is performed at the Precipitation Chemistry Laboratory at Battelle-Northwest Laboratories. Chemical analyses include pH, specific conductance, SO_3^{2-}, SO_4^{2-}, NO_2^-, NO_3^-, Cl^-, PO_4^{3-}, NH_4^+, Na^+, Mg^{2+}, Al^{3+}, K^+ and Ca^{2+}.

The Canadian Network for Sampling Precipitation

The Canadian Network for Sampling Precipitation (CANSAP) was established by the Atmospheric Environment Service in April 1977 (Barrie and Sirois 1982). Initially, the network consisted of 45 sampling sites across Canada, including 10 sites that were originally part of the World Meteorological Organization's Background Air Pollution Monitoring Network (BAPMON). Currently, CANSAP operates 62 sites, located at established meteorological measurement locations. The locations of the CANSAP sampling sites are presented in Figure 2.3.

The CANSAP network collects monthly precipitation samples in a wet-only Sangamo collector. Prior to January 1, 1980, the sample was left in the collector bucket until the end of the month. After January 1, 1980, composite monthly sampling was instituted. The collector is emptied every few days into a large bottle and stored indoors at room temperature. Chemical analyses include pH, acidity/alkalinity, specific conductance, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, Na^+, K^+, Ca^{2+} and Mg^{2+} (CANSAP 1982).

Canadian Air and Precipitation Monitoring Network

The Canadian Air and Precipitation Monitoring Network (APN), in operation since November 1978, was established to provide a set of regionally representative sites from which concentrations of selected air and precipitation trace constituents associated with long-range transport could be determined (Barrie et al. 1980). Only APN's wet deposition precipitation chemistry network operation is included in this report. All APN stations are located remote from the influences of local pollution sources and urban areas of any size. Two APN sites are colocated with CANSAP monthly precipitation sites. By the end of 1982, the APN network consisted of nine stations. Their locations are presented in Figure 2.4.

In the APN network, daily precipitation samples are collected with a Sangamo collector and analyzed separately. Chemical analyses include pH, SO_4^{2-}, NO_3^-, Cl^-, Ca^{2+}, NH_4^+, Na^+, Mg^{2+}, K^+ and total phosphorus.

Acidic Precipitation in Ontario Study

In 1980, the Ontario Ministry of the Environment established two networks to monitor both wet and dry deposition of selected ion species. The networks, one cumulative, one daily, are under the auspices of the Acidic Precipitation in Ontario Study (APIOS). The purpose of the cumulative network (Chan, Orr and Vet 1982a) is to determine the long-term deposition pattern in Ontario. It sampled on a monthly basis from its inception to the end of 1981 and then adopted a 28-day sample period as of January 5, 1982. The daily network (Chan, Orr and Vet 1982b), which samples on a daily basis, is designed to define the sector of origin of the ion species at the receptors, as well as the frequency and intensity of acidic deposition episodes.

The cumulative network began operation in September 1980 at 32 sites and expanded to 36 sites by mid-1982 (see Figure 2.5). The sites are selected to be regionally representative. The Sangamo wet/dry collector is colocated with a standard rain gage. All samples are analyzed in the Ministry's Laboratory Services Branch. Chemical analyses are performed for precipitation, volume, specific conductance, total acidity, pH, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, Ca^{2+}, Mg^{2+}, Na^+,

K^+, N-TKN (total Kjeldahl nitrogen), TP (total phosphorus), Zn, Fe, Ni, Cu, Pb, Al, Cd, Mn and V.

The daily network began operation in September 1980 at 16 sites in southern Ontario (see Figure 2.6). Four general areas of sampling have four daily samplers within the cluster. The samplers are separated into two groups of two samplers each. Distances between groups are approximately 50 to 100 km and within groups, 5 to 10 km. At one site, colocated samplers are run. From May through October, the precipitation collector used is an Aerochem Metrics Model 301 automatic deposition collector. During the remaining winter months, a Sudbury Environmental Study (SES)-type collector is used. Chemical analyses are performed for precipitation volume, acidity, pH, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, Na^+, Ca^{2+}, Mg^{2+} and specific conductance. A standard rain gage and snow gage accompany the precipitation chemistry collectors.

EPRI Sulfate Regional Experiment Network

The EPRI (Electric Power Research Institute) Sulfate Regional Experiment (EPRI/SURE) network was established in October 1978 (Gibson 1980) and continued operation until September 1981. The network consisted of nine sampling sites, covering the northeastern United States, with colocated samplers at each site (see Figure 2.7). The collection of colocated samples on a regular basis was discontinued at the end of 1979. Five stations continued operation to September 1981 at which time they became part of the Utility Acid Precipitation Study Program Network.

Samples are collected on an event basis. Two colocated AEC-HASL-type collectors are used. The samples are analyzed and reported separately. Chemical analyses include pH, specific conductance, strong acids, total acid, total organic carbon, SO_4^{2-}, NO_3^-, Cl^-, PO_4^{3-}, NH_4^+, Na^+, K^+, Ca^{2+}, Mg^{2+} and Al^{3+}.

Utility Acid Precipitation Study Program Network

The Utility and Precipitation Study Program (UAPSP) network was established in October 1981 by an ad-hoc group of 34 electric utility companies (Pack and Shepard 1983). The UAPSP monitoring network evolved from the earlier EPRI/SURE monitoring network. The network covers the eastern and central United States and consists of 19 stations located from Maine to South Dakota and extends as far south as Georgia and Texas (see Figure 2.8). The objective of UAPSP is to establish and maintain a long-term, high-quality precipitation chemistry monitoring network to establish temporal and spatial variability and trends. The technical management of the program is provided by EPRI and the chemical analyses are performed by Rockwell International.

The UAPSP operating procedures are similar to the predecessor EPRI/SURE network. Precipitation samples are collected daily when precipitation occurs. Chemical analyses include pH, conductivity, total acid, strong acid, SO_4^{2-}, NO_3^-, Cl^-, PO_4^{3-}, NH_4^+, Na^+, K^+, Ca^{2+} and Mg^{2+}.

NETWORK INTEGRATION AND SITE REVISION HISTORY

Important aspects of the philosophy of ADS is the integration of networks into a common data base and the tracking of protocol changes at a single sampling site. Both of these concepts are central to a study of spatial and temporal variability and trends of wet deposition in North America. In Appendix A, an inventory of sites currently in ADS illustrates the implementation of these concepts. The inventory is ordered by state and province, with all sites identified by network. Note that the ADS identification is arbitrarily assigned but is specific to a geographical location. If multiple collectors are at the same location, whether operated by the same network or not, they are identified by the same numerical ADS number but different letter, e.g., ADS site 53 in Raleigh, North Carolina. This facilitates intercomparative studies.

For each collector at a site, provision is made to track changes in protocol through the use of site revision numbers. When a network makes a change in field, analysis or network operation that may affect the comparability of results over time, then ADS records a revision. All samples collected during a period between revisions are identified with a single revision number. Each site's operating history, as provided by the network, is given in Appendix A.

EXPANSION AND UPDATE OF ADS

The networks currently participating in ADS are continuing to provide data from their programs. A network's new data is added to ADS immediately upon becoming available. Quarterly updates of data are expected. Other networks are being included in ADS, they are being added as quickly as the data transfer process can be implemented.

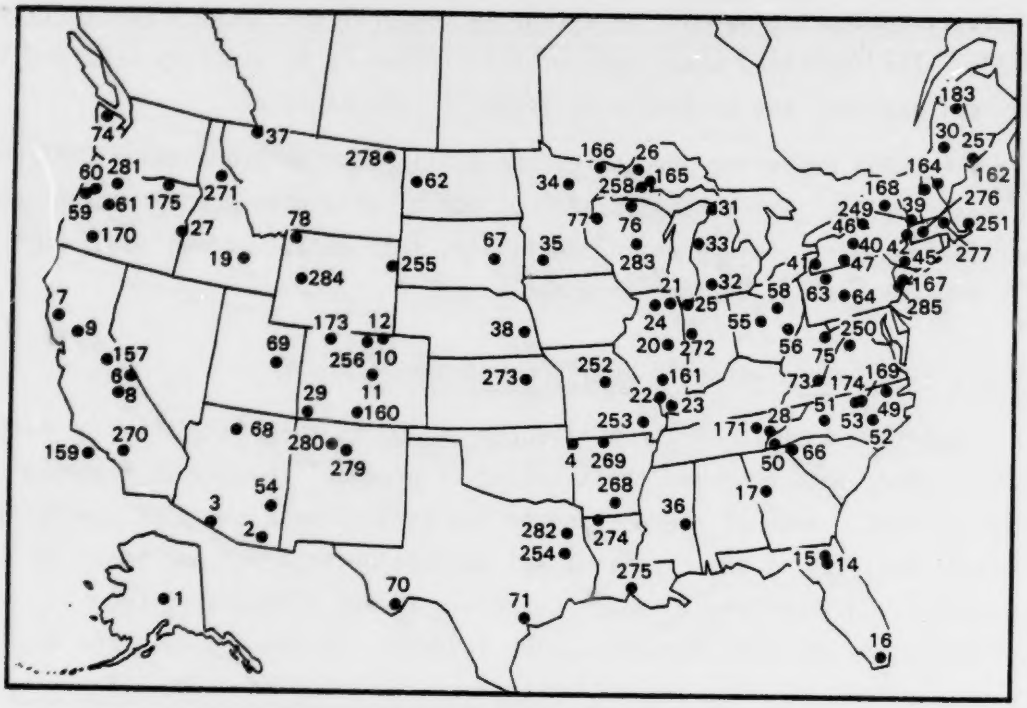

74
37
278
62
60
281
59
61
175
271
170
27
78
19
284
255
67
35
34
166
26
258
165
77
76
283
31
33
7
9
157
6
8
69
173
12
256
10
11
29
160
38
273
252
21
24
25
32
20
272
161
22
23
58
55
56
41
63
64
250
75
73
174
169
51
53
49
52
28
171
50
66
253
4
269
268
17
36
282
254
274
275
15
14
16
68
280
279
54
3
2
270
159
70
71
1
183
30
257
164
162
168
276
249
39
46
40
42
251
47
45
277
167
285

FIGURE 2.1. NADP Sites Identified by ADS Code

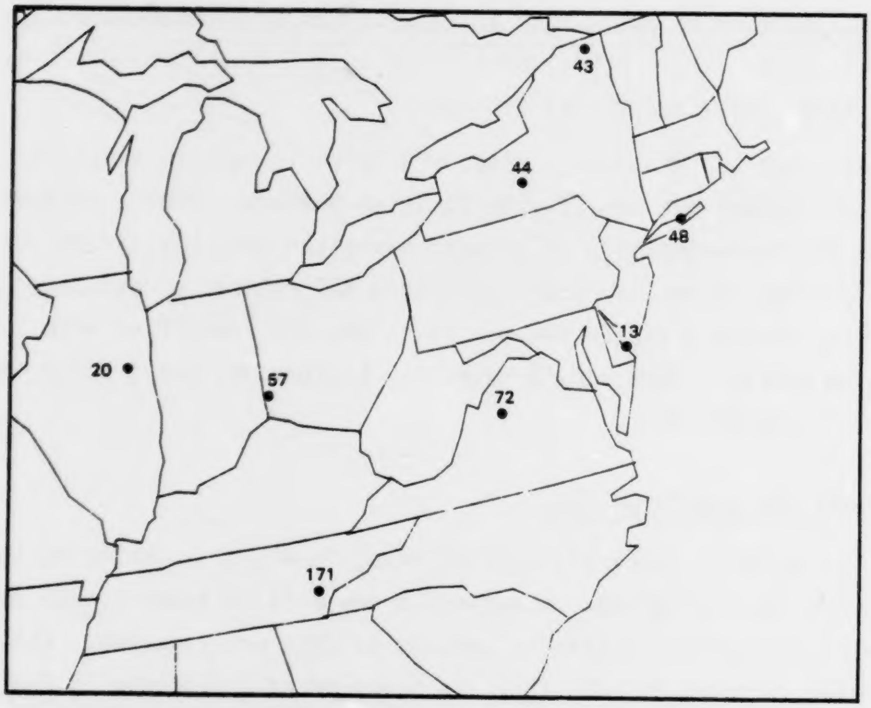

43
44
48
13
20
57
72
171

FIGURE 2.2. MAP3S/PCN Sites Identified by ADS Code

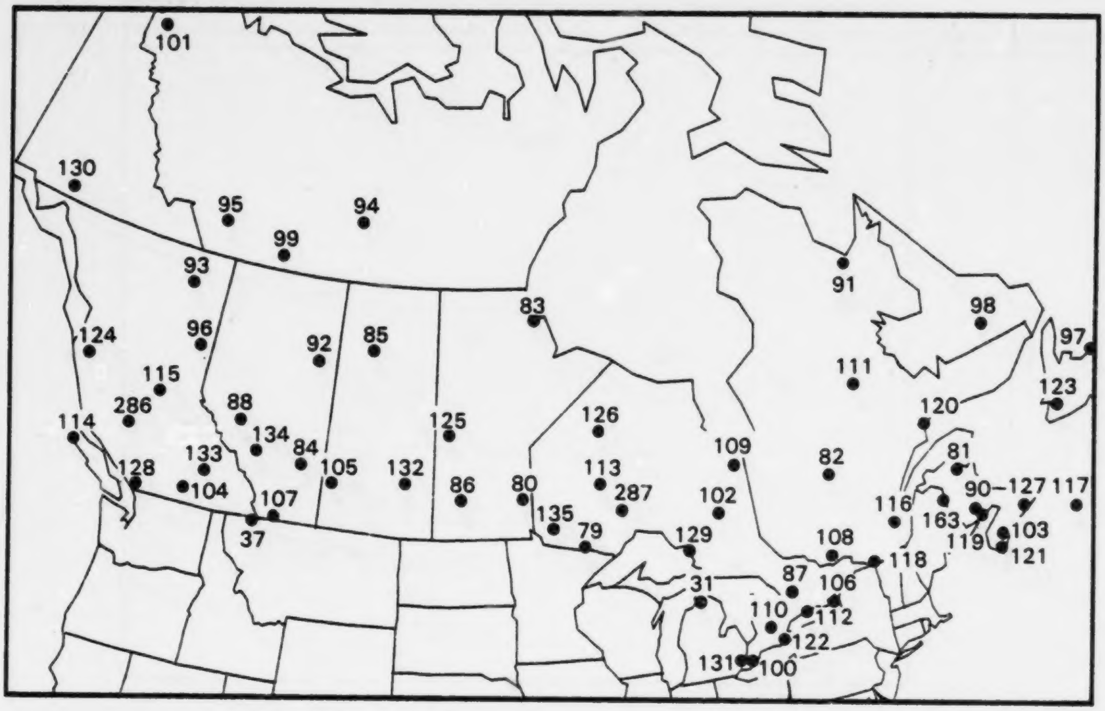

101
130
95
94
99
93
91
83
98
124
96
92
85
97
115
111
123
88
286
114
125
126
120
134
84
109
82
81
133
128
105
132
113
104
86
80
287
102
90
127
117
107
116
163
37
135
79
129
108
103
119
118
121
87
106
31
110
112
122
131
100

FIGURE 2.3. CANSAP Sites Identified by ADS Code

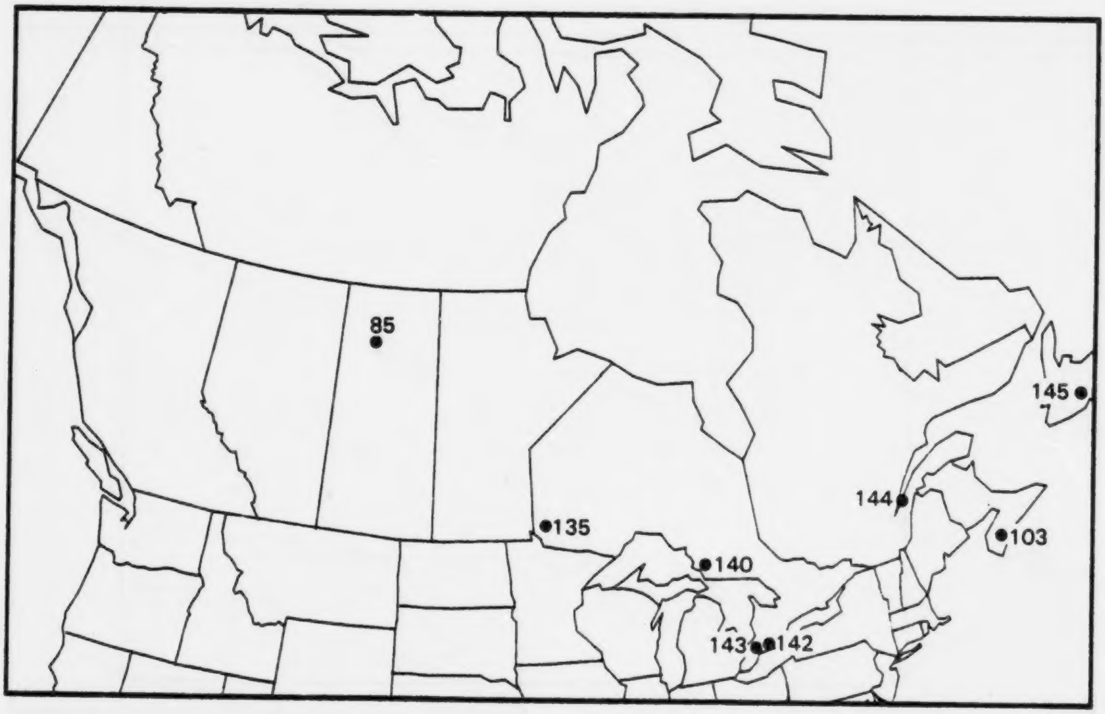

85
145
144
135
103
140
143
142

FIGURE 2.4. APN Sites Identified by ADS Code

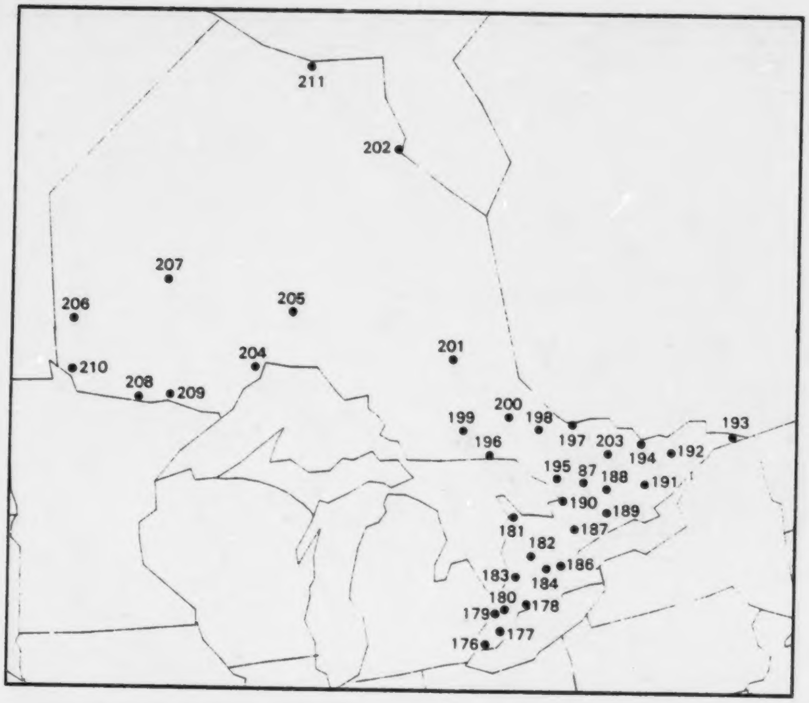

211
202
207
206
205
201
204
210
208
209
200
199
198
193
197
203
196
194
192
195
87
188
191
190
189
181
187
182
186
183
184
180
178
179
177
176

FIGURE 2.5. APIOS-C Sites Identified by ADS Code

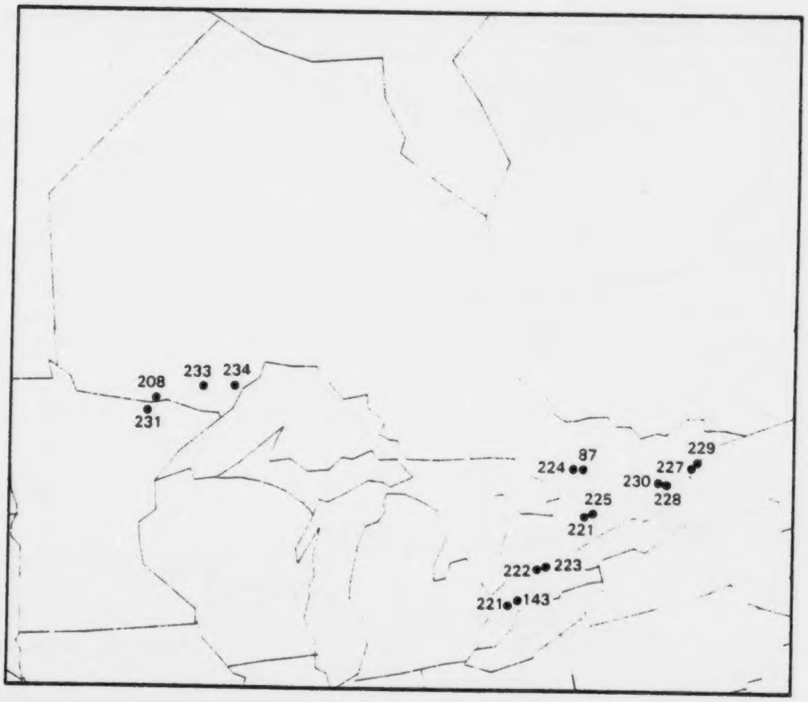

208
233
234
231
87
229
224
227
230
225
228
221
222
223
221
143

FIGURE 2.6. APIOS-D Sites Identified by ADS Code

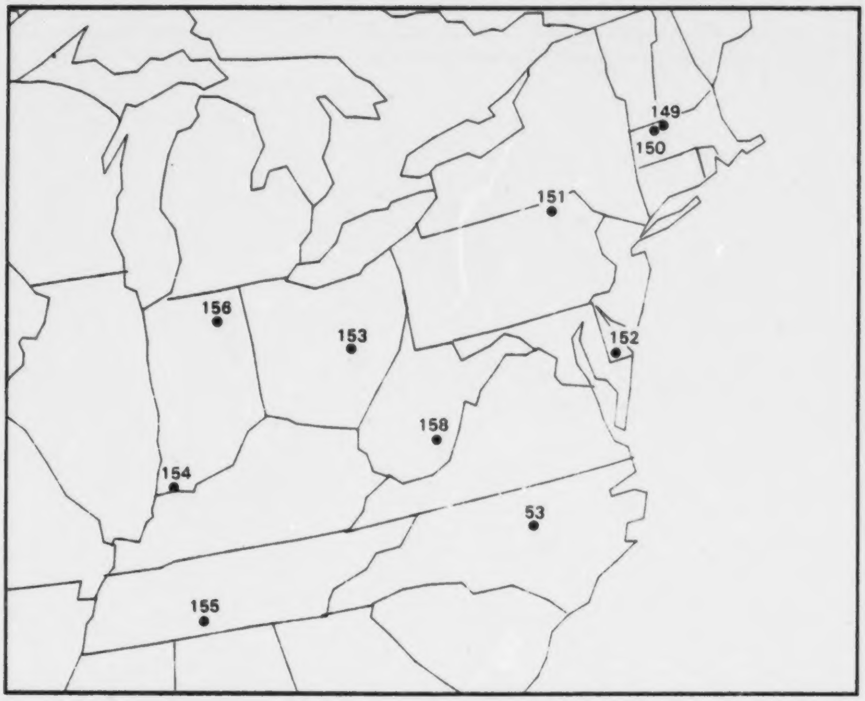

149
150
151
156
153
152
158
154
53
155

FIGURE 2.7. EPRI/SURE Sites Identified by ADS Code

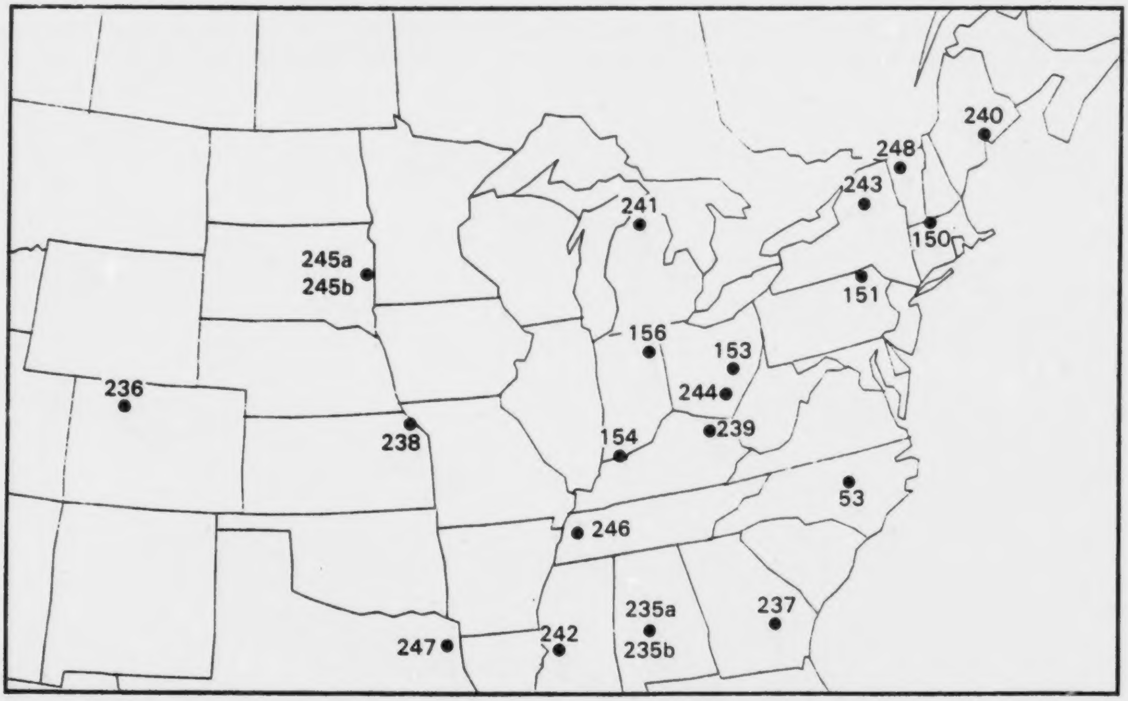

240
248
243
241
150
245a
245b
151
156
153
236
244
239
238
154
53
246
237
235a
235b
247
242

FIGURE 2.8. UAPSP Sites Identified by ADS Code

3. PREPARATION OF STATISTICAL SUMMARIES

Efforts to monitor precipitation chemistry wet deposition in North America have rapidly increased during the past 5-10 years. More organizations have instituted monitoring programs, and existing monitoring efforts have increased in scope. Each organization operating a monitoring network has its own set of objectives; hence, standard operating procedures differ across networks. Also, as experience and knowledge increases in wet deposition monitoring efforts, operating procedures for a network are changed. Appendix A contains available information on how the operations at specific sites have been revised over time. Because of the rapid growth in number of monitoring sites and differences in network operation, careful attention must be given to the preparation of annual statistical summaries.

DATA QUALITY

A major concern associated with any statistical summary is the quality of the data on which the summaries are based. Data quality begins with the selection of standard operation procedures for field and chemical laboratory operations and a quality assurance program to monitor the implementation of those procedures. Each of the monitoring networks included in the statistical summaries has defined standard operating procedures and quality assurance programs. All participate in one or more interlaboratory comparison programs. This report does not contain an evaluation of the quality of each network's data. Individual network reports or intercomparison studies should be consulted to obtain such information.

The ADS data base consists of the data that each network prepares for general users. Extensive discussions have occurred to ensure that the transfer of each network's data to the ADS data base has preserved the integrity and quality of the data provided by the network. Each network is requested to review the data transferred after each update of their data in ADS. Through this process the quality of the data as received from the network is maintained.

Each network has a chemical analysis laboratory that does sample analyses. The reasonableness of results from a particular sample analysis are checked using only information available from that analysis. Some networks are removed from this process (CANSAP, APN, APIOS) while others have more direct input (NADP, MAP3S, UAPSP). The latter networks may use additional information to initiate a reanalysis. Each network combines the laboratory sample results with supporting comments and codes associated with the sample collection and analysis effort, including information from time of field collection until after the sample analysis. The levels of detail and the procedures for reporting this information differ widely across networks. The statistical summaries in this report use the information available from each network as the basis for determining valid samples and consequently for screening individual monitoring sites.

DEFINITIONS OF "ANNUAL PERIOD" AND "PRECIPITATION OCCURRENCE"

Statistical summaries are presented for calendar years 1980, 1981 and 1982. The actual time period included for each monitoring site depends on the network sampling period protocol (daily, weekly, monthly, etc.) and the actual field operation. For event and daily network sites, the annual period coincides with the calendar year. For cumulative (weekly, monthly, 28-day) network sites, individual samples can include parts of two calendar years. Such sample periods are not split between years but are assigned to the year to which 50% or more of the sample collection period belongs. Consequently, the number of days included in the annual summary for these sites differs somewhat from 365 days. This mainly affects NADP and 1982 APIOS cumulative sites. In 1980 and 1981, NADP summaries included 52 weeks, while for 1982, NADP summaries included 53 weeks because of the assignment rule. No more than three days at either end of the calendar year are included from prior or future years for NADP sites. The APIOS cumulative network began using a 28-day sampling period in 1982. It begins and ends on a Tuesday to coincide with NADP sampling protocol. This results in a 1982 summary period from January 5, 1982, to January 4, 1983.

A fundamental concept underlying the statistical summary screening criteria is the definition of precipitation occurrence and coverage. For each sample period at a monitoring site, it is necessary to determine whether or not precipitation occurred. If it is known that no precipitation occurred, then valid precipitation coverage at the site occurred. If precipitation occurred and a quantitative estimate of the amount is available, then valid precipitation coverage at the site is also said to occur. Otherwise no valid precipitation coverage for the sample period is available. Precipitation coverage does not consider the valid or invalid collection of a wet deposition sample. The annual percent precipitation coverage provides information on the fraction of the year when knowledge of occurrence and amount of precipitation is available.

Precipitation depth for each sampling period is taken as the depth provided by the standard precipitation measurement (rain gage) colocated at the site. In those instances where the standard precipitation measurement is not available, the sample volume for the collector is converted to a depth and used as an estimate. Total precipitation during valid precipitation coverage is determined from this data.

VALID SAMPLE CRITERIA

Each sample associated with a sampling period is screened to determine whether the sample meets specific criteria. The screening criteria uses the informational comments and codes provided by each network. All sampling periods for which it is known that no precipitation occurred are considered valid sampling periods. When it is known precipitation occurred, the following additional criteria must be met:

1. The sample must be a wet-only deposition sample.
2. The sample must have been collected according to network protocols. In practice this applies only to NADP sites and corresponds to NADP "SP", sampling protocol problem, coded samples.
3. One or more chemical measurements for the sample must be available. Typically, excluded samples result from insufficient precipitation to complete an analysis or network deletion of sample data because of contamination.
4. Individual ion species concentration must not be accompanied by a comment code designating the measurement to be "suspect" or invalid.
5. The sampling period conditions below must be met.
    - NADP samples must not be "LD" - long-duration samples
    - CANSAP and APIOS monthly samples must include at least 22 days
    - APIOS 28-day samples must include more than 20 days but less than 36.

The basic premise assumed for valid sample screening is that each network has evaluated individual sample results for possible contamination and network protocol compliance. The networks differ substantially in the formalism and level of detail of their procedures. Consequently, it is difficult to achieve comparability across networks.

CRITERIA FOR REPORTING SITE ANNUAL SUMMARY

Four criteria form the basis for the decision to report an annual summary for pH, specific conductance and ion species for a site. In most instances, if the criteria are met for pH at a site, then they are met for the others. Any difference may be due to individual ion species being coded as invalid or due to insufficient precipitation for performance of all planned chemical analyses. The four criteria are listed below.

Criteria	Reporting Criteria
Percent Precipitation Coverage Length	90% or greater
Percent Total Precipitation Associated with Valid Samples	75% or greater
Percent Collection Efficiency	75% to 125%
Percent Valid Sample Length	75% or greater

An annual summary for an ion species at a site must meet all four criteria in order for the summary to be reported.

Percent precipitation coverage length is defined as the percent of the annual period for which valid precipitation coverage (in days) is available. Percent total precipitation associated with valid samples is the ratio of the precipitation depth associated with valid samples to the total precipitation depth measured during valid precipitation coverage. Together, the two criteria measure the coverage of the precipitation monitoring effort during the year. For example, if both criteria are at their lower limit, it is possible that the annual summary could account for less than 75% of the actual annual precipitation at the site. If percent precipitation coverage is 100%, then the criteria assures that at least 75% of the annual precipitation is included in the summaries.

Percent collection efficiency is defined as the ratio of the total sample volume, converted to a depth, to the total precipitation depth for all valid samples where both a sample volume and a standard precipitation depth measurement are available. Individual samples are not declared valid or invalid on the basis of collection efficiency. The overall annual collection efficiency is one measure of the "representativeness" of the sample volume collected and the quality of the site operation.

Percent valid sample length is defined as the percent of the annual period (in days) when valid sampling occurs. It includes all sampling periods when it is known that no precipitation occurs as well as all sampling periods with precipitation and a valid sample.

APPLICATION OF SCREENING CRITERIA

As a result of the valid sample and site reporting screening process, a number of sites are not reported. It is informative to summarize sites according to whether the four site criteria are met. Table 3.1 categorizes the number of sites in 1982 according to the four criteria for each network. Out of 250 sites operating in 1982, only 120 met all four site reporting criteria. Only NADP and CANSAP have a substantial number of sites failing to meet the precipitation coverage length criteria. NADP had a number of new sites in 1982. A number of NADP sites do not meet both the percent total precipitation and percent valid sample coverage criteria. This is due mainly to samples with NADP code "SP." All NADP samples not exactly seven days in length are coded "SP." Hence, a more stringent criterion for acceptable deviation from network sample period protocol has been applied to NADP than to CANSAP or APIOS cumulative network sites. CANSAP and APIOS cumulative networks have a number of sites that do not meet the annual collection efficiency criterion, presumably due to greater occurrence of snow collection periods. The sampling protocol for APIOS daily sites results in "bulk" samples during November to April. Using valid sample criteria, all samples during that time period were declared invalid. Additional research is required to determine if the current screening criteria produce comparable annual summaries across networks and if the criteria need to be more, or less, stringent.

TABLE 3.1. Number of Sites in 1982 Classified by Site Screening Criteria and Network

		Percent Total Precipitation Associated with Valid Samples								
		At Least 75%				Less Than 75%				
		Percent Valid Sample Coverage				Percent Valid Sample Coverage				
		At Least 75%		Less Than 75%		At Least 75%		Less Than 75%		
	Percent Precip Coverage	Collection Efficiency 75 to 125	Collection Efficiency <75 or >125	Collection Efficiency 75 to 125	Collection Efficiency <75 or >125	Collection Efficiency 75 to 125	Collection Efficiency <75 or >125	Collection Efficiency 75 to 125	Collection Efficiency <75 or >125	Row Total
NADP	<90%	1	0	12	1	0	0	5	1	20
	≥90%	62	1	2	0	2	0	21	0	88
MAP3S	<90%	0	0	0	0	0	0	0	0	0
	≥90%	9	0	0	0	0	0	0	0	9
CANSAP	<90%	2	8	2	5	0	0	0	0	17
	≥90%	17	20	0	0	0	0	0	0	37
APN	<90%	0	0	2	0	0	0	0	0	2
	≥90%	5	1	0	0	1	0	0	0	7
APIOS-D	<90%	0	0	0	0	0	0	0	0	0
	≥90%	3	1	0	0	11	0	0	0	15
APIOS-C	<90%	1	1	0	1	0	0	0	0	3
	≥90%	5	18	2	0	0	3	0	5	33
UAPSP	<90%	0	0	0	0	0	0	0	0	0
	≥90%	19	0	0	0	0	0	0	0	19
All Networks	<90%	4	9	16	7	0	0	5	1	42
	≥90%	120	41	4	0	14	3	2	5	208

4. STATISTICAL SUMMARIES

Annual statistical summaries for calendar years 1980, 1981 and 1982 were completed for each site operating during the corresponding calendar year. The procedures described in Section 3 were applied to produce summaries that would be based only on valid sample data and as comparable as possible across networks and sites. No screening criteria for wet deposition sample data are currently universally agreed upon as appropriate. Efforts are being made to define "standard" screening criteria. As far as possible, the criteria applied in this report are consistent with such efforts.

INDIVIDUAL SAMPLE CHARACTERISTICS

The presence or absence of seasonal or long-term trends is a major concern. As examples, time trends for pH and sulfate ion concentrations are presented for three sites operated by MAP3S/PCN, NADP and CANSAP. The MAP3S/PCN and NADP samplers are colocated at Bondville, Illinois, but use an event and weekly sampling interval, respectively. The CANSAP sampler is at Simcoe, Ontario, and operates with a monthly interval. No valid sample criteria have been used to screen these data.

Figures 4.1, 4.2 and 4.3 are time series plots of individual sample pH values from the three sites. Substantial variation from sample to sample is present for all sites throughout a year. The time series suggests the presence of seasonal cycles with lower pH during summer periods and higher pH values during colder periods. In view of the variation present, long-term trends indicated must be viewed with caution.

Figures 4.4, 4.5 and 4.6 are example time series plots of individual sample sulfate ion concentrations for the three network sites. A seasonal cycle for sulfates has higher concentrations occurring during summertime. This is consistent with the observed lower pH values. For the MAP3S/PCN network a more detailed study of periodic trends is reported in MAP3S (1982).

Many precipitation chemistry measurements on wet deposition samples are made, including the amount of precipitation, pH, and presence of multiple ion species. This multivariate characteristic of the data is important in gaining an understanding of the complex nature of wet deposition. Thorough discussion and analysis of all the interrelationships are not appropriate for this annual data summary. However, a few general characteristics are illustrated with the three network sites previously discussed.

When correlation coefficients are calculated for each of the sites, common patterns emerge. A weak negative relationship is present between sample volume and most ion species concentrations. That is, high ion concentrations tend to occur with small sample volumes. Scatterplots of the ion concentrations against sample volumes show that the correlation is the result of extreme high concentrations and not a well-defined linear relationship. This is illustrated in Figure 4.7 with pH values from the MAP3S/PCN Illinois site, where low sample volume samples show high variability in pH values. For these network sites any positive correlations exist among all ion species. This is the same conclusion reached in MAP3S (1982) for the MAP3S/PCN sites, with the comment that "dirty rain generally correlates nicely with dirty rain." Figures 4.8 and 4.9 are scatter plots of sulfate/nitrate concentrations for the MAP3S/PCN and NADP colocated sites in Illinois. A linear relationship is shown but is moderated by an increase in variation at high concentrations.

Figures 4.10, 4.11 and 4.12 plot pH against sulfate concentrations for for three network sites. The correlations between pH and sulfate are -0.34, -0.22 and 0.08 for MAP3S/PCN, NADP and CANSAP sites, respectively. For the colocated MAP3S/PCN and NADP samplers at Bondville, a significant ($P < 0.05$) negative association between pH and sulfate is indicated. The corresponding scatterplots illustrate the relationship, especially for samples with pH less than 5.0. Simcoe shows no relationship. This is partly due to the longer sampling interval used by CANSAP where multiple precipitation events are averaged together.

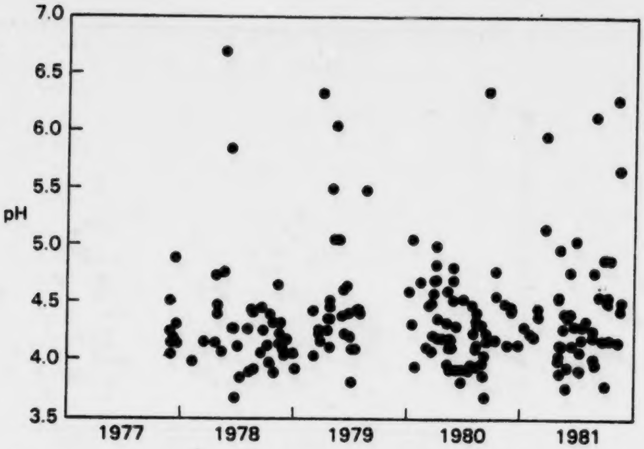


FIGURE 4.1. Time series plot of sample pH at MAP3S/PCN Illinois site from November 1977 to December 1981.

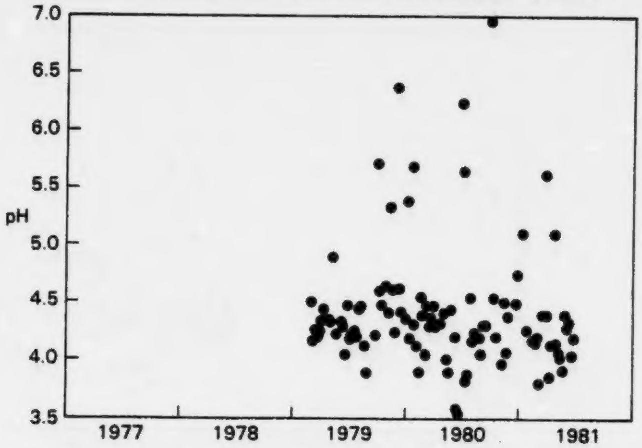


FIGURE 4.2. Time series plot of sample pH at NADP Bondville site from February 1979 to June 1981.

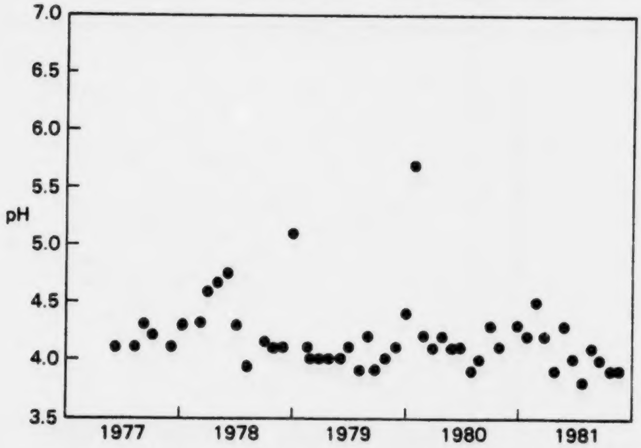


FIGURE 4.3. Time series plot of sample pH at CANSAP Simcoe site from May 1977 to December 1981.

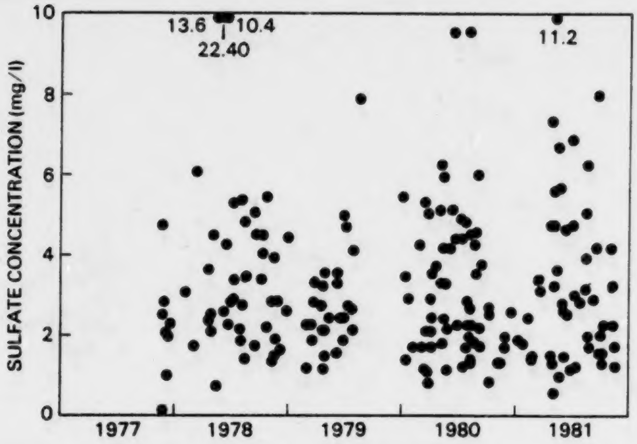


FIGURE 4.4. Time series plot of sulfate ion concentration (mg/l) at MAP3S/PCN Illinois site from November 1977 to December 1981.

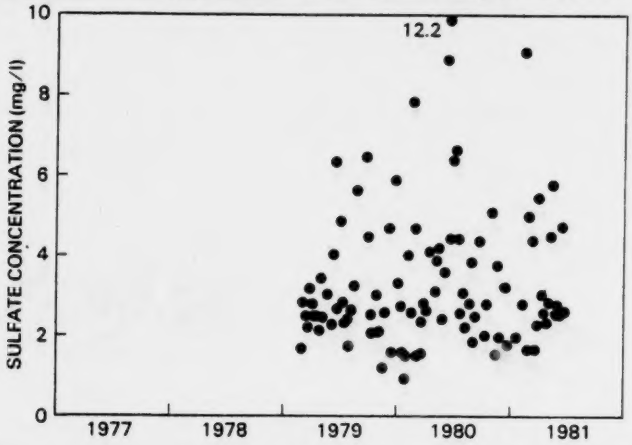


FIGURE 4.5. Time series plot of sulfate ion concentration (mg/l) at NADP Bondville site from February 1979 to June 1981.

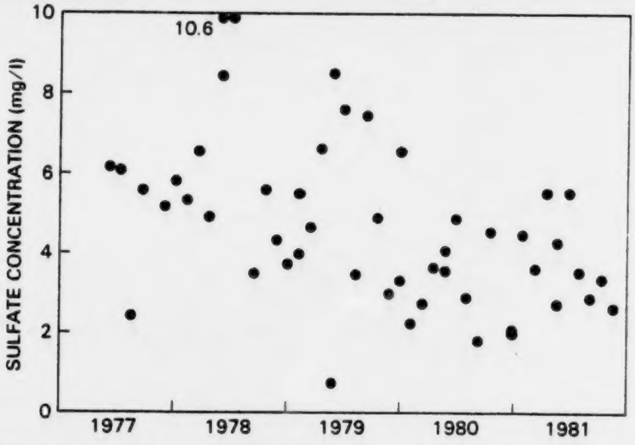


FIGURE 4.6. Time series plot of sulfate ion concentration (mg/l) at CANSAP Simcoe site from May 1977 to December 1981.

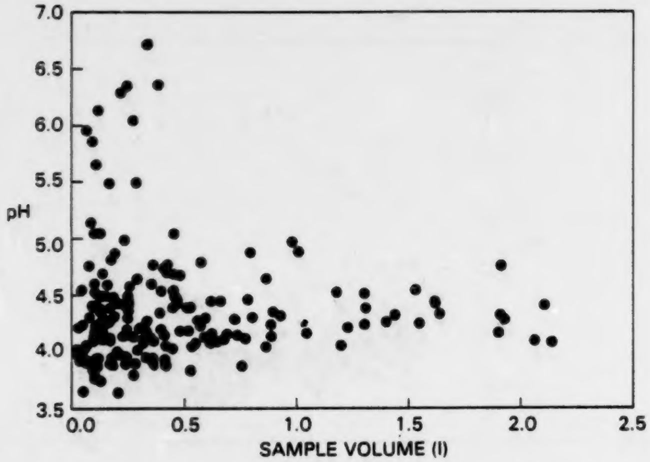


FIGURE 4.7. Plot of sample pH against sample volume (l) at the MAP3S/PCN Illinois site from November 1977 to December 1981.

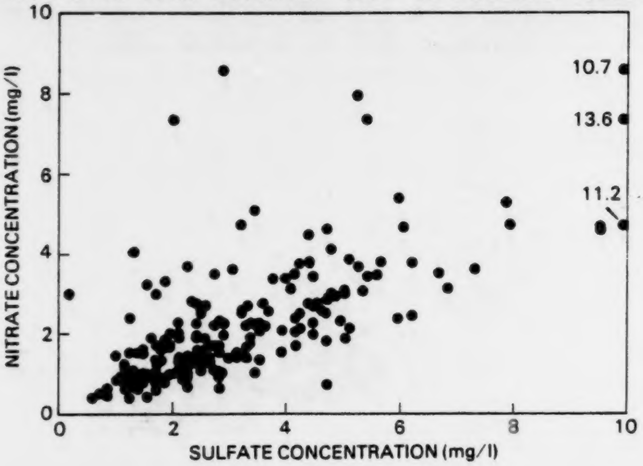


FIGURE 4.8. Plot of sample nitrate ion concentrations (mg/l) against sulfate ion concentrations (mg/l) at the MAP3S/PCN Illinois site from November 1977 to December 1981.

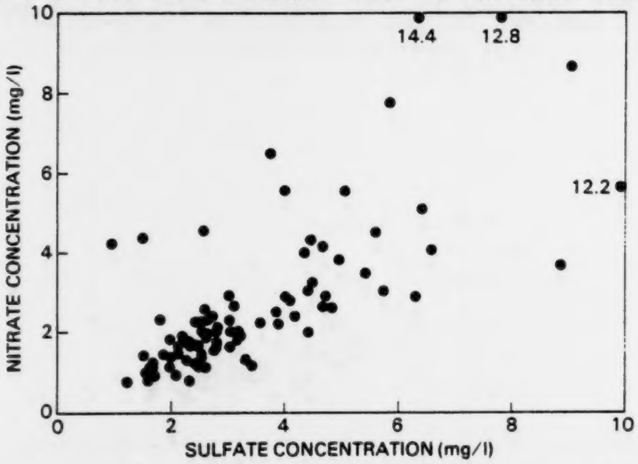


FIGURE 4.9. Plot of sample nitrate ion concentrations (mg/l) against sulfate ion concentrations (mg/l) at the NADP Bondville site from February 1979 to June 1981.

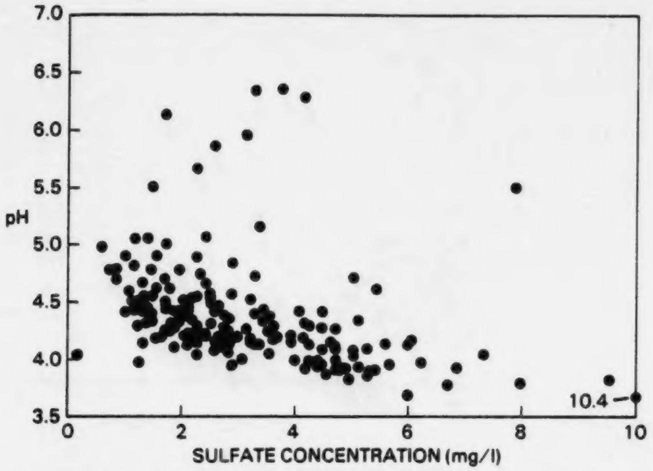


FIGURE 4.10. Plot of sample pH against sulfate ion concentration (mg/l) at the MAP3S/PCN Illinois site from November 1977 to December 1981.

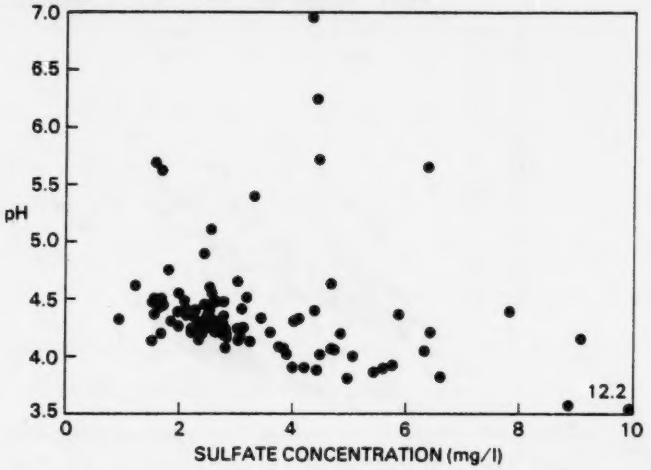


FIGURE 4.11. Plot of sample pH against sulfate ion concentration (mg/l) at the NADP Bondville site from February 1979 to June 1981.

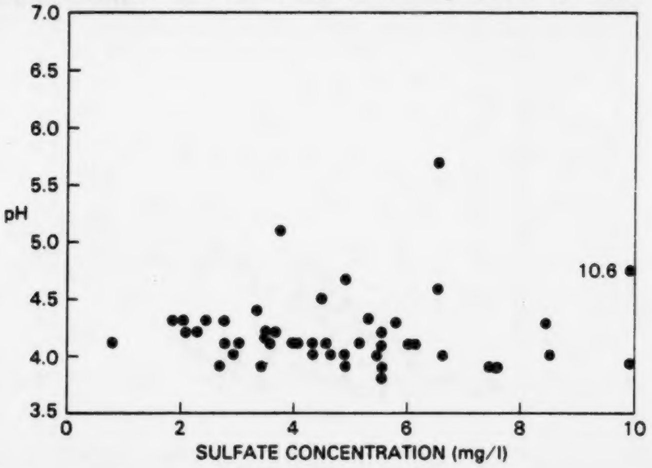


FIGURE 4.12. Plot of sample pH against sulfate ion concentration (mg/l) at the CANSAP Simcoe site from May 1977 to December 1981.

ANNUAL STATISTICAL SUMMARIES

Annual statistical summaries for each site meeting the reporting criteria for calendar years 1980, 1981 and 1982 are contained in Appendix E. For each year, annual summaries are given for pH, specific conductance, hydrogen ion (derived from pH), sulfate, nitrate, ammonium, calcium, chloride, sodium, magnesium, and potassium ion species. In each case, the summary consists of three major parts - site screening criteria, concentration summary measures, and annual deposition estimate. The four site screening criteria defined in Section 3 are reported here. They may be used to help evaluate the usefulness of a site summary for a particular application. Ion species concentrations (or similarly pH or specific conductance) are summarized by reporting the number of valid concentration samples, number of valid samples below detection limit, precipitation-weighted mean, geometric mean, standard deviation of logarithms, arithmetic mean and standard deviation, the minimum and maximum valid sample value, and the 10th, 25th, 50th (median), 75th and 90th percentiles. The total precipitation during the year and the annual deposition is reported. A description of each summary measure is given at the beginning of Appendix E.

The annual summaries presented in Appendix E are available as computer data files. Additional summary measures are also available.

The relationships among annual precipitation weighted pH, sulfate and nitrate concentrations for 1982 reported sites are presented in Figures 4.13, 4.14 and 4.15. Annual sulfate and nitrate concentrations are highly correlated (r = 0.89). Extreme precipitation weighted annual concentrations occur at CANSAP and APN sites in southern Ontario. No other pattern involving specific networks is apparent. Both sulfate and nitrate precipitation weighted annual concentrations are negatively correlated with precipitation weighted annual pH, -0.78 and -0.61, respectively.

When the same relationships are considered for deposition of hydrogen, sulfate and nitrate, a consistent pattern is present. Sulfate and nitrate deposition (Figure 4.16) have a correlation of 0.90. Hydrogen ion deposition has correlations of 0.92 and 0.88 with sulfate and nitrate deposition, respectively (Figures 4.17 and 4.18). Similar though weaker relationships were shown to be present for individual sample data at NADP and MAP3S Bondville, Illinois, sites and at CANSAP Simcoe, Ontario, site.

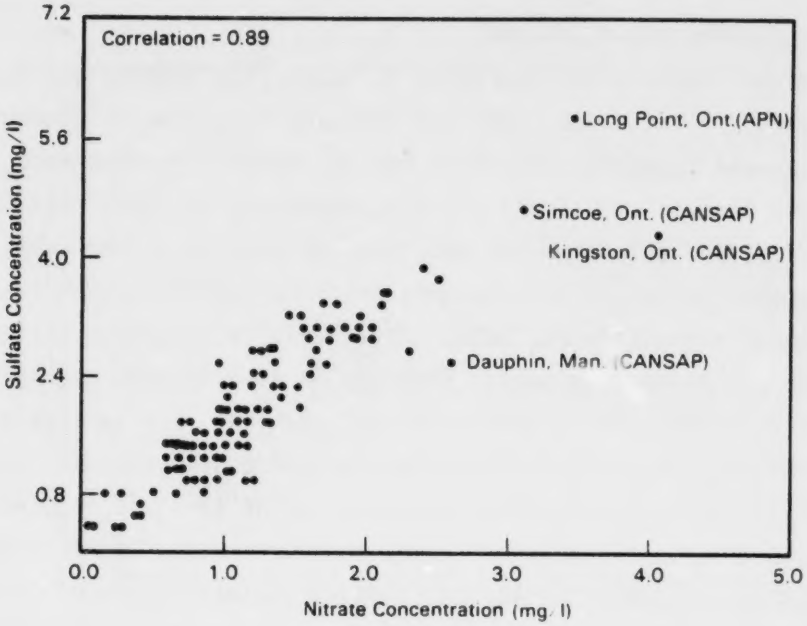


FIGURE 4.13. Relationship between sulfate ion and nitrate ion concentration for 1982 annual precipitation-weighted average site summary.

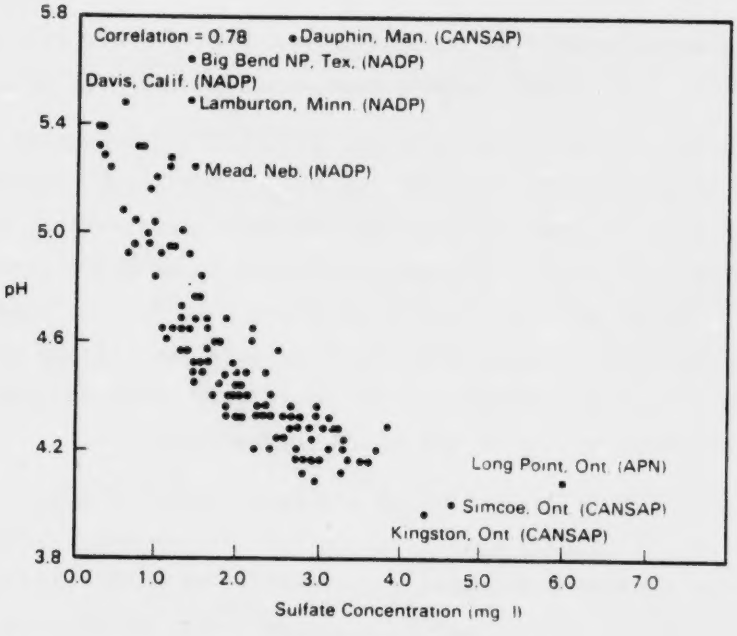


FIGURE 4.14. Relationship between pH and sulfate ion concentration for 1982 annual precipitation-weighted average site summary.

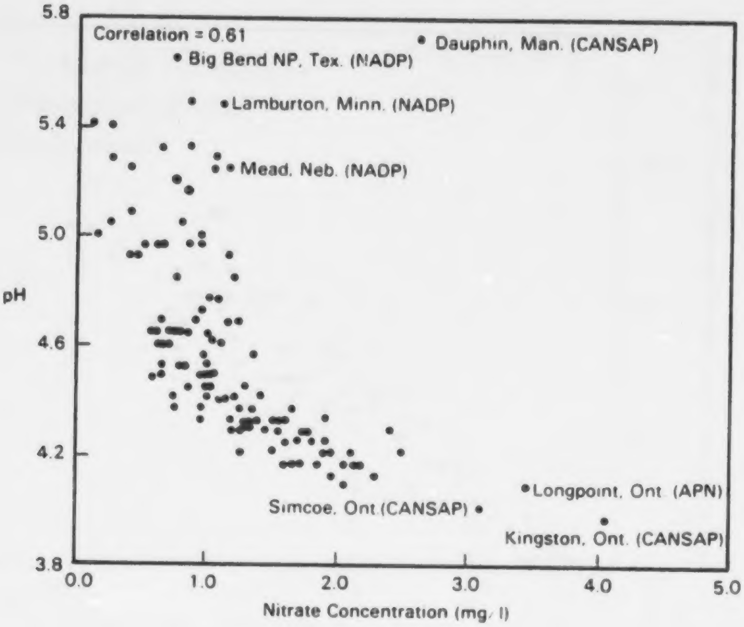


FIGURE 4.15. Relationship between pH and nitrate ion concentration for 1982 annual precipitation-weighted average site summary.

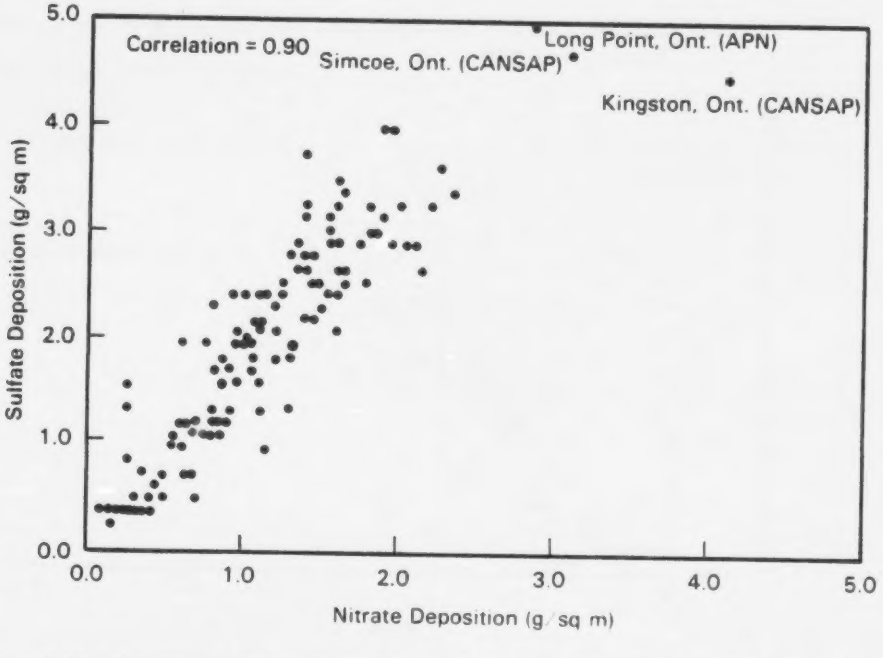


FIGURE 4.16. Relationship between sulfate ion and nitrate ion deposition for 1982 annual site summaries.

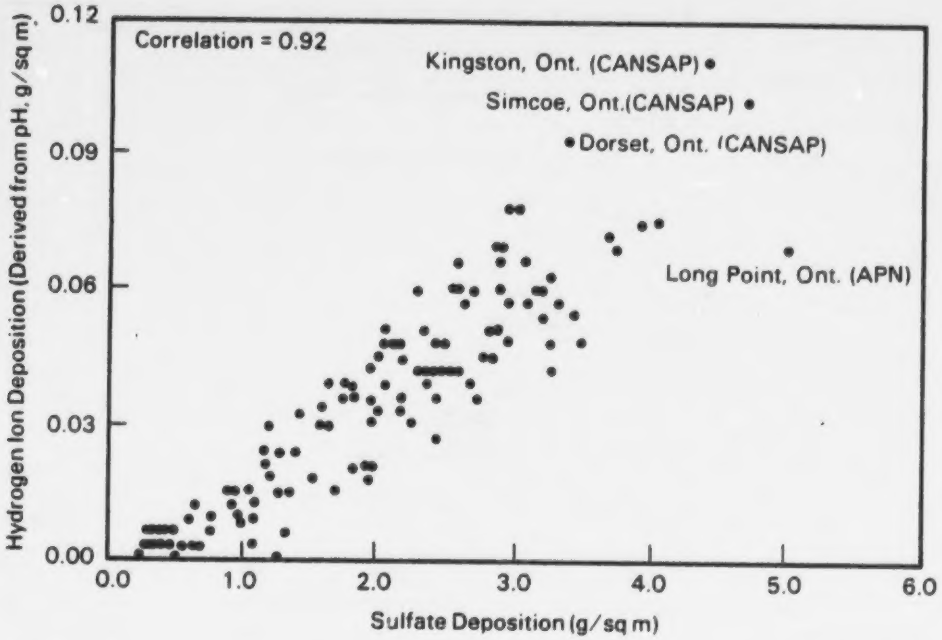


FIGURE 4.17. Relationship between sulfate ion and hydrogen ion deposition for 1982 annual site summaries.

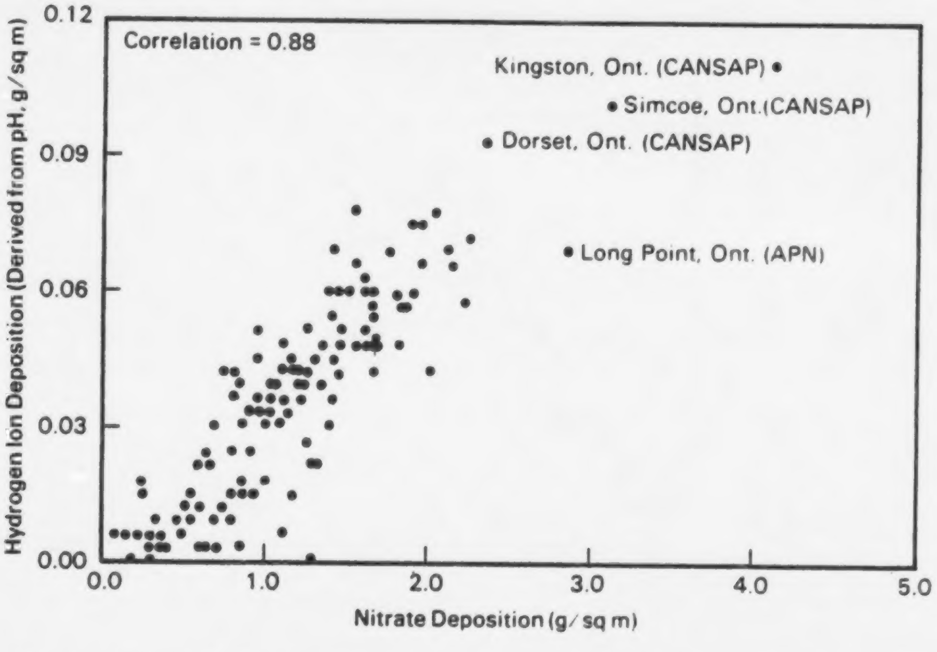


FIGURE 4.18. Relationship between nitrate ion and hydrogen ion deposition for 1982 annual site summaries.

SPATIAL PATTERNS

The number of sites measuring wet deposition increased rapidly from 1975 to 1982, the result of an increase in networks interested in long-term regional monitoring and also of an increase in sites for existing networks. These additional sites enhance the ability to study spatial patterns in the United States and Canada. A set of isopleth maps based on the annual statistical summaries in Appendix E are constructed to display concentration and deposition spatial patterns. For each calendar year 1980, 1981 and 1982, six isopleth maps are presented in Appendices B, C and D, respectively. The six isopleth maps are precipitation weighted mean pH, precipitation weighted mean sulfate and nitrate concentration, and annual deposition for hydrogen, sulfate and nitrate ions.

Estimating the spatial distribution of an ion species' annual average concentration or annual deposition is a problem of estimating a spatial surface and then displaying the estimated surface by constructing isopleth lines. Surface estimation is essentially a problem of interpolation between measurement sites. A number of techniques provide a solution to the problem. The isopleth maps presented here use an interpolation technique called kriging to estimate the surface. The surface is then contoured by computer, with the final isopleth lines presented being smoothed by hand. Finkelstein (1984) discusses the spatial analysis of acid precipitation data, gives the underlying principles and equations to apply kriging, and considers the problem of placing confidence limits on isopleth lines based on kriging. Previously, Finkelstein and Seilkop (1981) studied the application of kriging techniques to acid precipitation data. They used observations from the NADP network for 1979 and concluded that kriging offered some distinct benefits for the spatial analyses of acid precipitation data. Further information on kriging is available in Delhomme (1978, 1979) and Barnes (1980).

Each isopleth map presents the location of all sites used in constructing the isopleth lines. With the exception of northeastern United States and southeastern Canada, the annual concentration or deposition for the site is given. Where the density of sites does not allow presentation of data values for all sites, representative values are presented. The tabular summaries in Appendix E should be used to determine data values for specific sites. To facilitate comparisons, the same levels of concentration or deposition are used for isopleth lines for 1980, 1981 and 1982. In some cases, a specific isopleth level is not present for a year. A dashed isopleth line is used to indicate that the density of sample sites is insufficient to locate accurately the position of the isopleth. Any interpretation of differences or similarities between year in the location of an isopleth line must include an evaluation of the effect of differences in the number of sample sites between years.

REFERENCES

Barnes, M. G. 1980. "The Use of Kriging for Estimating the Spatial Distribution of Radionuclides and Other Spatial Phenomena." TRAN-STAT (Statistics for Environmental Studies), Issue No. 13, PNL-SA-9051, Pacific Northwest Laboratory, Richland, Washington.

Barrie, L. A., H. A. Wiebe, P. Fellin, and K. Anlauf. 1980. APN: The Canadian Air and Precipitation Monitoring Network: A Description and Results for November 1978 to June 1979. Internal Report AQRB-80-002-T, Atmospheric Environment Service, Downsview, Canada.

Barrie, L. A., and A. Sirois. 1982. An Analysis and Assessment of Precipitation Chemistry Measurements Made by CANSAP (The Canadian Network for Sampling Precipitation): 1977-1980. Report AQRB-82-003-T, Atmospheric Environment Service, Downsview, Canada.

Canadian Network for Sampling Precipitation (CANSAP). 1982. CANSAP Data Summary. 1981. Internal report, Atmospheric Environment Service, Downsview, Canada.

Chan, W. H., D. B. Orr and R. J. Vet. 1982a. The Acidic Precipitation in Ontario Study (APIOS) - An Overview. The Cumulative Wet/Dry Deposition Network. Report ARB-15-82-ARSP, Ontario Ministry of the Environment, Toronto, Canada.

Chan, W. H., D. B. Orr and R. J. Vet. 1982b. The Acid Precipitation in Ontario Study (APIOS) - An Overview. The Event Wet/Dry Deposition Network. Report ARB-11-82-ARSP, Ontario Ministry of the Environment, Toronto, Canada.

Delhomme, J. P. 1978. "Kriging in the Hydrosciences." Advances in Water Resources, 1(5):251-266.

Delhomme, J. P. 1979. "Spatial Variability and Uncertainty in Groundwater Flow Parameters: A Geostatistic Approach." Water Resources Research 15(2):269-280.

Eriksson, E. 1952. "Composition of Atmospheric Precipitation." Tellus 4:280-303.

Finkelstein, P. F. 1984. "The Spatial Analysis of Acid Precipitation Data." J. of Climate and Applied Meteorology 23:52-62.

Finkelstein, P. F., and S. K. Seilkop. 1981. "Interpolation Error and the Spatial Variability of Acid Precipitation." Proceedings of the Seventh Conference on Probability and Statistics in Atmospheric Sciences, pp. 206-212, Amer. Meteor. Soc., Boston, Massachusetts.

Gibson, J. H. 1980. Workshop Proceedings: Data Management Needs for Atmospheric Deposition, EPRI Report WS-79-163, Electric Power Research Institute, Palo Alto, California.

MAP3S/Raine Research Community. 1982. "The MAP3S/RAINE Precipitation Network: Statistical Overview for the Period 1976-1980." *Atmos. Environ.* 16:1603-1631.

Miller, J. M. 1981. *Trends in Precipitation Composition and Deposition*. Work Group 2, Report 2-14, United States-Canada. Memorandum of Intent, July.

National Atmospheric Deposition Program (NADP). 1983. *NADP Report: Precipitation Chemistry; First Quarter 1981*. National Resource Ecology Laboratory, Colorado State University, Fort Collins, Colorado.

Niemann, B. L., J. Roat, N. Van Zwalenburg and A. L. Mahan. 1979. *An Integrated Monitoring Network for Acid Deposition: A Proposed Strategy*. Interim Report R-023-EPA-73.

Pack, D. H., and A. A. Shepard (eds.). 1983. *Proceedings: Advisory Workshop on Methods for Comparing Precipitation Chemistry Data*, UAPSP-100, Utility Acid Precipitation Study Program, Electric Power Research Institute, Palo Alto, California.

Watson, C. R., and A. R. Olsen. 1984. *Acid Deposition System (ADS) for Statistical Reporting System. System Design and User's Code Manual*. PNL-4826, Pacific Northwest Laboratory, Richland, Washington.

Wisniewski, J., and J. D. Kinsman. 1982. "An Overview of Acid Rain Monitoring Activities in North America." *Bull. Am. Meteorol. Soc.* 63:598-618.

APPENDIX A

ADS SITES, ORDERED BY STATE OR PROVINCE, AND THEIR OPERATING HISTORY

COLUMN HEADING DEFINITIONS FOR ADS SITE REPORT

Column	Column Head	Explanation
1	None	The name of the State or Province is printed as a group heading offset to the left. The ADS numeric code is shown parenthetically.
2	NONE	The network which operates the site is identified as a group heading. See Table B.2 for more information about the network. The ADS network number is shown parenthetically.
3	NONE	The network's name of the site is shown as a group heading followed by the network's site number.
4	ADS SITE IDENT	The first four characters of the six character site identification are printed. The first three numbers identify a geographic location. The fourth character (the letter a, b, c, ...) identifies colocated samplers at a site.
5	LATITUDE d m s	The north latitude of the site (except for site 172 which is south) in degrees, minutes and seconds.
6	LONGITUDE d m s	The West longitude of the site in degrees, minutes and seconds.
7	ELEV M	The elevation, in meters, of the site above sea level.
8	ADS rev num	These are the right most two digits of the six-character ADS-IDENT. Each revision in protocol for a site causes a separate partial line on the left of the report.
9	REV START	This is the month and year of the start of this particular protocol revision.
10	REV END	This is the month and year of the end of protocol revision (9/99 indicates protocol currently in effect).
11	OPERATING HISTORY	This is the narrative explanation of revision from the SITE-HISTORY file. If it is blank, no site-specific information is available.

```
                                          ADS sites, sorted by STATE or PROVINCE                                      23-Jul-1984
                                                                                                                     Page 1
STATE
   NETWORK                              ADS                                 ADS
      SITE NAME                         SITE  LATITUDE LONGITUDE   ELEV rev   REV   REV
                                        IDENT d  m  s   d  m  s     m   num  START  END                  OPERATING HISTORY

Alabama (1)
   UAPSP (08)
      Selma (15)                        235a  32 28 25  87 05 03     42 00  10/81 12/81 Operated under normal UAPSP sampling protocol
                                                                                          in last quarter of 1981.  Co-located sampler
                                                                                          at this site, see 235b.
                                                                        01   1/82 12/82 UAPSP sampling protocol expanded to include
                                                                                        NITRITE in CY 82  See co-located sampler
                                                                                        235b.
                                                                        02   1/83       Discontinued analysis of NITRITE, otherwise
                                                                                        no change in protocol  See co-located sampler
                                                                                        235b.
      Selma-2 (15 smplr 2)              235b  32 28 25  87 05 03     42 00  10/81 12/81 Operated under normal UAPSP sampling protocol
                                                                                          in last quarter of 1981  See co-located
                                                                                          sampler 235a.
                                                                        01   1/82 12/82 UAPSP sampling protocol expanded to include
                                                                                        NITRITE in CY 82  See co-located sampler
                                                                                        235a.
                                                                        02   1/83  1/83 Discontinued analysis of NITRITE on 1/1/83.
                                                                                        Discontinued operation of co-located sampler
   EPA-IV (13)                                                                          on 1/21/83.  This ADS ident TERMINATED.
      Tallassee                         259a                            00   3/82  9/83 Samples analyzed by RTI
                                                                        01  10/83       Samples analyzed by Global Geochem after
                                                                                        10/1/83
Alaska (2)
   NADP (01)
      Mt. Mckinley Park (020390)        001a  63 43 27 148 57 55    649 00   6/80

Arizona (4)
   NADP (01)
      Grand Canyon (030370)             068a  36 04 18 112 09 11   2152 00   8/81
      Oliver Knoll (030360)             054a  33 04 17 109 51 53   1173 00   8/81
      Organ Pipe Mon. (030620)          003a  31 57 02 112 48 00    506 00   4/80
      Tombstone (030180)                002a  31 42 30 110 03 24   1398 00   3/79
      Warren 2WSW (040260)              268a  33 36 15  92 06 02     78 00   5/82

Arkansas (5)
   NADP (01)
      Buffalo River (041620)            269a  36 05 20  92 32 58    265 00   1/82
      Fayetteville (042700)             004a  36 06 02  94 10 24    391 00   5/80

California (6)
   NADP (01)
      Bishop (053460)                   006a  37 22 15 118 21 59   1252 00   4/80          This site is part of the WMO network.
      Channel Islands (058500)          159a  34 00 57 119 21 43     49 00   7/80
      Davis (058840)                    009a  38 32 07 121 46 30     18 00  10/78
      Hopland (Ukiah) (054540)          007a  39 00 17 123 05 05    253 00  10/79
      Sequoia Nat. Park (057550)        008a  36 34 09 118 46 40   1856 00   7/80
```

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Tanbark Flat (054200)	270a	34 12 27	117 45 39	853	00	1/82		
Yosemite (058850)	157a	37 47 49	119 51 30	1408	00	12/81		
Colorado (8)								
NADP (01)								
Alamosa (060060)	160a	37 26 36	105 51 55	2298	00	4/80		
Loch Vale (061911)	256a	40 21 51	105 34 55	2490	00	10/83		The sampler was relocated from HQ parking lo to this meadow on 18-Oct-83. Previous samples from Rocky Mountain Park are stored under ADS ident 010a00
Manitou (062120)	011a	39 06 04	105 05 31	2362	00	10/78		
Mesa Verde (061530)	029a	37 11 56	108 29 26	2172	00	4/81		
Pawnee (062220)	012a	40 48 23	104 45 15	1641	00	5/79		On 22-Apr-80 the collector was moved closer to the gage. No change was made in the ADS site number.
Rocky Mt. Nat Park (061910)	010a	40 21 52	105 33 37	2369	00	5/80		Sampler and raingage were moved from HQ parking lot to a meadow about 1.8km west and 200 m higher on 18-Oct-83. This ADS ident was TERMINATED at that time. See ADS iden 256a00 for samples collected after 18-Oct-83
Sand Spring (061560)	173a	40 30 27	107 42 07	1998	00	3/79		
UAPSP (08)								
Yampa (23)	236a	40 10 00	106 55 00	2390	00	8/82	12/82	Started operation in UAPSP in middle of firs year.
					01	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol.
MAP3S/PCN (06)								
Lewes (7)	013a	38 46 00	75 00 00	0	00	2/78	11/80	This MAP3S site started operation with the Battelle Northwest collector; surface area = 490 sq cm.
					01	11/80		On 10-Nov-80 the collector was changed to th Aerochem Metrics model 301-A2 with a surface area of 640 sq cm.
EPRI-SURE (10)								
Indian River (03)	152a	38 34 50	75 14 45	6	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NO USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 152b.
					02	1/80	6/80	Starting 1/1/80 only one sampler in operatio at this EPRI/SURE siteSTATION TERMINATED Jun 30, 1980
Indian River 2 (03 smplr 2)	152b	38 34 50	75 14 45	6	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NO USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 152a. The second sampler was removed after one year, this ADS number DISCONTINUED.

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Florida (12)												
NADP (01)												
Austin-Cary Forest (100020)	014a	29	45	37	82	11	56	46	00	10/78		
Bradford Forest (100360)	015a	29	58	29	82	11	53	44	00	10/78		
Everglades Nat. Pa (101190)	016a	25	23	40	80	41	45	2	00	6/80		
Georgia (13)												
NADP (01)												
Georgia Station (114140)	017a	33	10	40	84	24	22	270	00	10/78		
UAPSP (08)												
Uvalda (14)	237a	32	03	18	82	28	25	64	00	10/81	12/81	Operated under normal UAPSP sampling protocol in last quarter of 1981
									01	1/82	12/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
									02	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
EPA-IV (13)												
Hiasassee	261a								00	4/82	9/83	Samples analyzed by RTI
									01	10/83		Samples analyzed by Global Geochem after 10/1/83
Hawaii (15)												
NADP (01)												
Mauna Loa (120080)	018a	19	32	22	155	34	45	3426	00	6/80		
Idaho (16)												
NADP (01)												
Craters of Moon (130340)	019a	43	27	48	113	33	31	1806	00	8/80		
Headquarters (130480)	271a	47	37	40	115	49	10	969	00	7/82		
Illinois (17)												
NADP (01)												
Argonne (141980)	021a	41	42	04	87	59	43	229	00	3/80		On 25-May-80, the collector and raingage(?) were moved less than 1km. No change was made in ADS site number.
Bondville (141160)	020a	40	03	12	88	22	19	212	00	2/79		
Dixon Springs (146340)	023a	37	26	08	88	40	19	161	00	1/79		
NIARC (141800)	024a	41	50	29	88	51	04	265	00	1/81		
Salem (144740)	161a	38	38	36	88	58	01	173	00	4/80		On 30-Oct-81 a Belfort weighing recording raingage was installed 10 ft NW of and to replace 8-inch stick or standard gage. No change made in ADS site number.
Southern Ill U (143580)	022a	37	42	36	89	16	08	146	00	7/79		
MAP3S/PCN (06)												
Illinois (5)	020b	40	03	12	88	22	19	212	00	11/77	2/80	This MAP3S site started operation with the Battelle Northwest collector; surface area = 490 sq cm.
									01	2/80	1/82	On 16-Feb-80 the collector was changed to the HASL model with surface area = 325 sq cm.
									02	1/82		On 5-Jan-82 the collector was changed to the Aerochem Metrics model 301-A2 with surface area = 640 sq cm.

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
GLAD (14)								
Evanston (142360010)	288a	42 03 36	87 40 25	183	00	7/81		
Jardine Plant (141220043)	289a	41 53 41	87 36 23	194	00	6/81		
South Water Plant (141220034)	290a	41 45 25	87 32 45	187	00	6/81		
Indiana (18)								
NADP (01)								
Indiana Dunes (153420)	025a	41 37 57	87 05 16	208	00	7/80	3/81	This NADP site was moved in March 1981. It was on top of a roof. It was moved several meters and placed on the ground.
					01	3/81		This sampler was located on a nearby roof prior to 3/19/81.
Purdue U Ag Farm (154100)	272a	40 28 17	85 59 18	215	00	7/82		
EPRI-SURE (10)								
Fort Wayne (07)	156a	41 02 39	85 19 08	244	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 156b.
					02	1/80	9/81	Starting 1/1/80 only one sampler in operation at this EPRI/SURE site
					03	10/81	12/81	Transfered operation from EPRI/SURE to UAPSPS and operated under normal UAPSPS protocol in last quarter of 1981.
					04	1/82	12/82	UAPSPS one year effort to analyze NITRITE in 1982, otherwise protocol remained the same.
					05	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
Fort Wayne-2 (07 smplr 2)	156b	41 02 39	85 19 08	244	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 156a. The second sampler was removed after one year, this ADS number DISCONTINUED.
Rockport (05)	154a	37 52 50	87 07 47	131	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 154b.
					02	1/80	9/81	Starting 1/1/80 only one sampler in operation at this EPRI/SURE site
					03	10/81	12/81	Transfered operation from EPRI/SURE to UAPSPS and operated under normal UAPSPS protocol in last quarter of 1981.
					04	1/82	12/82	UAPSPS one year effort to analyze NITRITE in 1982, otherwise protocol remained the same.
					05	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
Rockport-2 (05 smplr 2)	154b	37 52 50	87 07 47	131	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 154a. The second sampler was removed after one year, this ADS number DISCONTINUED.

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Kansas (20)								
NADP (01)								
Konza Prairie (173120)	273a	39 06 08	96 36 33	344	00	8/82		
UAPSP (08)								
Lancaster (18)	238a	39 34 10	95 18 17	346	00	11/81	12/81	Operated under normal UAPSP sampling protocol in last quarter of 1981
					01	1/82	12/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
					02	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
Kentucky (21)								
UAPSP (08)								
Morehead (11)	239a	38 08 10	83 27 17	235	00	10/81	12/81	Operated under normal UAPSP sampling protocol in last quarter of 1981
					01	1/82	12/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
					02	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
EPA-IV (13)								
Grayson Lake	260a				00	4/82	9/83	Samples analyzed by RTI
					01	10/83		Samples analyzed by Global Geochem after 10/1/83
Louisiana (22)								
NADP (01)								
Iberia (191260)	275a	29 55 47	91 42 54	6	00	11/82		
N La Hill Farm (190620)	274a	32 45 04	93 03 02	61	00	11/82		
Maine (23)								
NADP (01)								
Acadia < 11/81 (200010)	162a	44 24 30	68 14 42	37	00	11/80	11/81	Collector and raingage moved 2.5 miles SSW and 85 meters higher on 10-Nov-81. This ADS ident TERMINATED; subsequent data stored under ADS ident 257a00.
Acadia > 11/81 (200011)	257a	44 22 27	68 15 39	122	00	11/81		The collector was formerly located at ADS ident 162a00.
Bridgton (200277)	164a	44 06 27	70 43 44	222	00	9/80		
Caribou (200045)	163a	46 52 08	68 00 55	191	00	4/80		See 163b, CANSAP intercomparison.
Greenville Station (200935)	030a	45 29 23	69 39 52	322	00	11/79		On 15-Jul-80 a Belfort weighting and recording raingage was installed; there was no gage on site prior to this date. No change was made to ADS site number.
CANSAP (05)								
Caribou (13 000)	163b	46 52 08	68 00 55	191	00	4/80		Operated as international intercomparison site. This CANSAP sampler is co-located with NADP site 163a - Data not in ADS.

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
UAPSP (08)								
Winterport (13)	240a	44 37 05	68 58 30	67	00	10/81	12/81	Operated under normal UAPSP sampling protocol in last quarter of 1981
					01	1/82	12/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
					02	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
Massachusetts (25)								
NADP (01)								
Cadwell (220815)	276a	42 21 40	72 23 27	283	00	3/82		
East (221325)	277a	42 23 02	71 12 53	20	00	2/82		
NACL (220155)	251a	41 58 23	70 01 12	34	00	12/81		
EPRI-SURE (10)								
Montague (01)	149a	42 32 00	72 32 08	73	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 149b.
					02	1/80	7/80	Starting 1/1/80 only one sampler in operation at this EPRI/SURE site sampler moved to ADS location 150a on 1-Aug-80. Site 149a TERMINATED
Montague-2 (01 smplr 2)	149b	42 32 00	72 32 08	73	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 149a. The second sampler was removed after one year, this ADS number DISCONTINUED.
Turners Falls (01)	150a	42 35 50	72 32 55	98	00	8/80	9/81	EPRI/SURE site moved from 149a on 1-aug-80
					01	10/81	12/81	Transfered operation from EPRI/SURE to UAPSPS and operated under normal UAPSPS protocol in last quarter of 1981.
					02	1/82	12/82	UAPSPS one year effort to analyze NITRITE in 1982, otherwise protocol remained the same.
					03	1/83		Discontinued NITRITE analysis.
Michigan (26)								
NADP (01)								
Chassell (232241)	258a	47 06 03	88 33 10	279	00	2/83		relocated from 165a00 on 10/15/83
Douglas Lake (230920)	031a	45 33 40	84 40 42	233	00	7/79		
Houghton (232240)	165a	47 13 33	88 37 50	193	00	10/80	2/83	Sampler was moved 8 miles to the SE on 10/15/83. This ADS ident TERMINATED; subsequent data stored as ADS ident 258a00
Isle Royal Park (232570)	026a	47 54 43	89 09 10	209	00	8/80		
Kellogg (232660)	032a	42 24 37	85 23 34	288	00	6/79		
Wellston (235340)	033a	44 13 28	85 49 07	292	00	10/78		on 27-Sep-83 the collector was moved to about 10m from the raingage. No change was made in ADS site number.
CANSAP (05)								
Pellston (13 020)	031b	45 33 40	84 40 42	233	00	7/79	1/80	Sangamo model C.
					01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
UAPSP (08)								
Gaylord (10)	241a	44 56 58	84 30 30	473	00	11/81	12/81	Operated under normal UAPSP sampling protocol in last quarter of 1981
					01	1/82	12/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
					02	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
GLAD (14)								
Bay City (230420002)	291a	43 39 30	83 53 45	187	00	3/81		
Beaver Island (230860001)	292a	45 44 30	85 30 30	183	00	9/81		
Benton Harbor (230460004)	293a	42 07 00	86 28 30	191	00	2/81		
Cooper Harbor (232740001)	294a	47 28 00	87 52 00	191	00	6/81	5/83	This GLAD network site TERMINATED on May 17, 1983. Sampler moved to Eagle Harbor (ADS site 295a).
Eagle Harbor (232740002)	295a	47 27 28	88 09 42	188	00	6/83		
Empire (232940001)	296a	44 51 16	86 02 08	233	00	6/83		
Escanaba (231420008)	297a	45 44 30	87 03 30	196	00	6/81		
Gramd Marais (230080001)	298a	46 40 00	85 58 00	191	00	7/81		
Mount Clemens (233660002)	299a	42 34 00	82 50 40	176	00	4/82		
Muskegon (233760007)	301a	43 08 40	86 16 20	190	00	3/81		
Ontonagon (234060002)	302a	46 49 20	89 38 00	194	00	7/81		
Port Austin (232340002)	303a	44 02 50	82 59 40	185	00	4/81		
Port Sanilac (234800001)	304a	43 26 20	82 32 32	190	00	3/81		
Tawas Point (234110002)	305a	44 16 00	83 26 30	179	00	5/81		
Minnesota (27)								
NADP (01)								
Fernberg (241840)	166a	47 56 45	91 29 43	524	00	11/80	3/81	This NADP site operated with collector at ground level within a clearing until March 1981.
					01	3/81	5/81	Collector and raingage(?) moved to rooftop of trailer within existing clearing.
					02	5/81		Collector and raingage returned to ground level about 30m from trailer roof top.
Lamberton (242720)	035a	44 14 14	95 18 02	343	00	1/79		
Marcell (241660)	034a	47 31 52	93 28 07	431	00	7/78		
GLAD (14)								
Duluth (241040029)	306a	46 46 07	92 05 15	198	00	7/81		
Gooseberry Falls (241840016)	307a	46 24 40	91 28 48	206	00	9/81		
Gull Lake (240900001)	308a	46 24 40	94 21 15	383	00	1/82		
Hovland (240800009)	309a	47 50 50	89 57 45	224	00	7/81		
Mississippi (28)								
NADP (01)								
Meridian (251460)	036a	32 20 04	88 44 42	89	00	4/80		
UAPSP (08)								
Clinton (16)	242a	32 21 06	90 17 15	76	00	10/81	12/81	Operated under normal UAPSP sampling protocol in last quarter of 1981
					01	1/82	12/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
					02	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol

```
STATE                                       ADS                            ADS
   NETWORK                                  SITE  LATITUDE LONGITUDE  ELEV rev  REV  REV
      SITE NAME                             IDENT d  m  s    d  m  s    m  num START END              OPERATING HISTORY
   EPA-IV (13)
      University                            263a                           00  5/82 9/83 Samples analyzed by RTI
                                                                           01 10/83      Samples analyzed by Global Geochem after
                                                                                         10/1/83

Missouri (29)
   NADP (01)
      Ashland (260380)                      252a  38 45 13  92 11 55   239 00 10/81
      University Forest (260560)            253a  36 54 39  90 19 06   154 00 10/61

Montana (30)
   NADP (01)
      Give Out Morgan (271340)              278a  48 28 42 105 11 39   817 00  9/82
      Glacier Nat Park (270570)             037a  48 30 37 113 59 44   968 00  6/80      See 037b, CANSAP intercomparison.
   CANSAP (05)
      Glacier Nat Park (13 010)             037b  48 30 37 113 59 44   968 00  6/80      This is an international intercomparison
                                                                                         sampler, operated by CANSAP at this
                                                                                         NADP site.  Data not included in ADS.

Nebraska (31)
   NADP (01)
      Mead (281520)                         038a  41 09 11  96 29 34   352 00  7/78

New Hampshire (33)
   NADP (01)
      Hubbard Brook (300240)                039a  43 56 35  71 42 12   250 00  7/78

New Jersey (34)
   NADP (01)
      Princeton (312980)                    167a  40 18 54  74 51 17    72 00  8/80 7/81 On July 7, 1981 this site was TERMINATED.
                                                                                         Collector was moved about 25 miles SW to
                                                                                         Washington Crossing.  See ADS-IDENT 285a00
                                                                                         This site is part of the WHO network.
      Washington Xing (312981)              285a  40 18 54  74 51 17    72 00  4/81      This NADP collector was formerly located in
                                                                                         the town of Princeton.  See ADS-IDENT 167a00.
                                                                                         This site is part of the WHO network.

New Mexico (35)
   NADP (01)
      Bandelier (320720)                    279a  35 46 54 106 16 03  1998 00  6/82
      CUBA (320980)                         280a  36 02 27 106 58 17  2124 00  2/82

New York (36)
   NADP (01)
      Aurora (330860)                       040a  42 44 02  76 39 35   249 00  4/79
      Bennett Bridge (335240)               046a  43 31 34  75 56 50   245 00  6/80
      Chautauqua (331000)                   041a  42 17 58  79 23 47   488 00  6/80
      Huntington (332020)                   168a  43 58 19  74 13 25   500 00 10/78
      Jasper (336500)                       047a  42 06 22  77 32 08   634 00  2/80
      Knobit (331220)                       042a  42 22 41  73 30 10   406 00  1/80
      Stilwell Lake (335140)                045a  41 21 00  74 02 22   186 00  6/79
```

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
MAP3s/PCN (06)								
Brookhaven (6)	048a	40 52 00	72 53 00	25	00	2/78	2/81	Started operation using Battelle Northwest sampler with surface area = 490 sq cm.
					01	2/81		On 24-Feb-81 the sampler was changed to an Aerochem Metrics model 301-A2 with surface area = 640 sq cm.
Ithaca (2)	044a	42 24 03	76 39 12	509	00	10/76	8/77	This MAP3S site started operation with the Battelle Northwest collector; surface area = 490 sq cm.
					01	8/77	9/77	Analysis method changed. NH4 was colorimetry now Ion Chromatography. NA and K were Flame Emission Spectrography - now Ion Chromatography.
					02	9/77	11/79	Analysis method changed. CA and MG were Flame Emission Spectrography - now Flame Atomic Absorption. SO4 was colorimetry - now Colorimetry with field fixation.
					03	11/79		Collector changed to HASL model with surface area = 640 sq cm.
Whiteface (1)	043a	44 23 26	73 51 34	610	00	10/76	8/77	This MAP3s/PCN site started operation with the Battelle Northwest collector; surface area = 490 sq sm.
					01	8/77	9/77	Analysis method changed in August 1977. NH4 changed from colorimetry to Ion Chromatography. NA and K changed from Flame Emission Spectrometry to Ion Chromatography.
					02	9/77	12/79	Analysis method changed in mid September 1977. CA and MG changed from Flame Emission Spectrometry to Flame Atomic Absorbtion on 9/14/77. SO4 (S-IV) changed from colorimetry to colimetry with field fixation on 9/6/77.
					03	12/79		Collection instrument changed to HASL with surface area = 640 sq cm in December 1979.
UAPSP (08)								
Big Moose (21)	243a	43 49 03	74 54 08	603	00	10/81	12/81	Operated under normal UAPSP sampling protocol in last quarter of 1981
					01	1/82	12/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
					02	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
GLAD (14)								
Cape Vincent (333340099)	310a	44 05 30	76 20 30	80	00	1/82		
Dunkirk (331600099)	311a	42 30 13	79 19 26	182	00	1/82		
Fair Haven (330860099)	312a	43 19 08	76 42 11	74	00	1/82		
Grand Island (332000099)	313a	43 03 30	78 58 00	173	00	1/82		
Olcott (334720099)	314a	43 20 27	78 41 35	84	00	1/82		
Rochester (335760099)	315a	43 13 48	77 34 45	81	00	1/82		
North Carolina (37)								
NADP (01)								
Clinton Station (343560)	052a	35 01 26	78 16 45	47	00	10/78		
Coweeta (342500)	050a	35 03 38	83 25 50	686	00	7/78		

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Finley (A) (344160)	053a	35 43 43	78 40 52	119	00	10/78		See co-located 053b.
Finley (B) (344161)	053b	35 43 43	78 40 52	119	00	10/78		See co-located 053a.
Lewiston (340320)	049a	36 07 40	77 10 30	26	00	10/78		
Piedmont Station (343460)	051a	35 41 48	80 37 22	221	00	10/78		
R Triangle Inst (341180)	174a	35 54 09	78 52 12	99	00	10/80		
R Triangle Park (343310)	169a	35 53 47	78 51 38	94	00	4/80		
EPRI-SURE (10)								
Raleigh (08)	053c	35 43 43	78 40 48	128	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 053d.
					02	1/80	9/81	Starting 1/1/80 only one sampler in operation at this EPRI/SURE site
					03	10/81	12/82	Transfered operation from EPRI/SURE to UAPSPS and operated under normal UAPSPS protocol in last quarter of 1981.
					04	1/82	12/82	UAPSPS one year effort to analyze NITRITE in 1982, otherwise protocol remained the same.
					05	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
Raleigh-2 (08 smplr 2)	053d	35 43 43	78 40 48	128	00	8/78	12/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 053c. The second sampler was removed after one year, this ADS number DISCONTINUED.
North Dakota (38)								
NADP (01)								
Teddy Roosevelt NP (350700)	062a	47 36 09	103 15 54	618	00	5/81		
Ohio (39)								
NADP (01)								
Caldwell (364900)	056a	39 47 34	81 31 52	276	00	9/78		
Delaware (361760)	055a	40 21 19	83 03 58	285	00	10/78		
Wooster (367160)	058a	40 46 48	81 55 31	315	00	9/78		
MAP3S/PCN (06)								
Oxford (8)	057a	39 31 51	84 43 25	284	00	9/80	11/80	Started operation using Battelle Northwest sampler with surface area = 490 sq cm.
					01	11/80		On 24-NOv-80 the sampler was changed to the Aerochem Metrics model 301-A2 with surface area = 640 sq cm.
UAPSP (08)								
McArthur (22)	244a	39 14 06	82 28 41	224	00	10/81	12/81	Operated under normal UAPSP sampling protocol in last quarter of 1981
					01	1/82	12/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
					02	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
EPRI-SURE (10)								
Zanesville (04)	153a	39 59 02	82 01 05	250	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 153b.
					02	1/80	9/81	Starting 1/1/80 only one sampler in operation at this EPRI/SURE site
					03	10/81	12/81	Transfered operation from EPRI/SURE to UAPSPS and operated under normal UAPSPS protocol in last quarter of 1981.
					04	1/82	12/82	UAPSPS one year effort to analyze NITRITE in 1982, otherwise protocol remained the same.
					05	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
Zanesville-2 (04 smplr 2)	153b	39 59 02	82 01 05	250	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 153a. The second sampler was removed after one year, this ADS number DISCONTINUED.
GLAD (14)								
Ashtabula (360200001)	316a	41 54 30	80 46 30	179	00	1/82		
Fairport Harbor (362100001)	317a	41 45 17	81 16 25	203	00	1/82		
Lorain (363620014)	318a	41 28 20	82 08 30	192	00	2/81		
Put-in-Bay (365260001)	319a	41 39 29	82 49 40	177	00	2/81		
Toledo (365200007)	320a	41 41 30	83 24 32	177	00	1/81		
Oregon (41)								
NADP (01)								
Alsea (380200)	059a	44 23 13	123 37 22	84	00	12/79		
Bull Run (380260)	281a	45 27 00	122 08 50	267	00	7/82		
H.J. Andrews (381020)	061a	44 13 23	122 14 32	472	00	5/80		
Lost Creek (380840)	170a	42 40 04	122 40 59	475	00	10/80		
Pendleton (381780)	175a	45 41 23	118 50 16	542	00	4/80		
Schmidt Farm (380201)	060a	44 37 35	123 12 50	69	00	12/79		
Vines Hill (381120)	027a	43 53 57	117 25 37	904	00	7/80		
Pennsylvania (42)								
NADP (01)								
Kane (392940)	063a	41 35 52	78 46 04	618	00	7/78		
Leading Ridge (394200)	064a	40 39 32	77 56 10	282	00	4/79		

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
MAP3s/PCN (06)								
Penn State (3)	065a	40 47 18	77 56 47	393	00	9/76	8/77	Started operation using Battelle Northwest sampler with surface area = 490 sq cm.
					01	8/77	9/77	Analysis method changed. NH4 was colorimetry - now Ion Chromatography. NA and K were Flame Emission Spectrography - now Ion Chromatography.
					03	9/77	12/79	Analysis method changed. CA and MG were Flame Emission Spectrography - now Flame Atomic Absorption. SO4 was colorimetry - now Colorimetry with field fixation.
					04	12/79	2/81	Collection instrument changed. Was BNW - now HASL with surface area = 640 sq cm.
					05	3/81		Collection instrument changed. Was HASL - now Aerochem Metrics model 301-A2 with surface area = 640 sq cm.
EPRI-SURE (10)								
Scranton (02)	151a	41 34 30	75 59 40	335	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	operation as a co-located site see 151b.
					02	1/80	12/80	continued operation in EPRI/SURE network with only one sampler in use.
					03	1/81	9/81	Station NOT IN USE
					04	10/81	12/81	started operation as UAPSP site with 13 ?? components in analysis protocol
					05	1/82	12/82	UAPSP one year effort to analyze NITRITE in 1982. Otherwise protocol remained same.
					06	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
Scranton-2 (02 smplr 2)	151b	41 34 30	75 59 40	335	00	8/78	12/79	EPRI/SURE start up phase DO NOT USE DATA
					01	1/79	12/79	one year operation with two samplers at this site, see 151a.
GLAD (14)								
Erie (393060099)	321a	42 07 48	80 06 03	183	00	1/82		
South Carolina (45)								
NADP (01)								
Clemson (421880)	066a	34 40 28	82 50 09	221	00	3/79		
EPA IV (13)								
Delta					00	12/82	9/83	Samples analyzed by RTI
					01	10/83		Samples analyzed by Global Geochem after 10/1/83
South Dakota (46)								
NADP (01)								
Huron (430060)	067a	44 23 02	98 13 14	390	00	4/80		

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
UAPSP (08)								
Brookings (19)	245a	44 19 54	96 49 45	499	00	10/81	12/81	Operated under normal UAPSP sampling protocol in last quarter of 1981
					01	1/82	12/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
					02	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
Brookings-2 (19 smplr 2)	245b	44 19 54	96 49 45	499	00	10/81	12/81	Operated under normal UAPSP sampling protocol in last quarter of 1981
					01	1/82	12/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
					02	1/83	1/83	Discontinued analysis of NITRITE on 1/1/83. Discontinued operation of co-located sampler on 1/10/83. This ADS ident TERMINATED.
Tennessee (47)								
NADP (01)								
Elkmont (441190)	028a	35 39 52	83 35 25	640	00	8/80		
Walker Branch (440040)	171a	35 57 41	84 17 14	341	00	3/80		
MAP3s/PCN (06)								
Oak Ridge (9)	171b	35 57 41	84 17 14	341	00	1/81		This MAP2S site started operation with Aerochem Metrics model 301-A2 sampler which has srufface area = 640 sq cm.
UAPSP (08)								
Alamo (12)	246a	35 47 32	89 08 03	112	00	10/81	12/81	Operated under normal UAPSP sampling protocol in last quarter of 1981
					01	1/82	12/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
					02	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
EPRI-SURE (10)								
Giles County (06)	155a	35 17 05	86 54 11	244	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 155b.
					02	1/80	6/80	Starting 1/1/80 only one sampler in operation at this EPRI/SURE site STATION TERMINATED June 30, 1980
Giles County-2 (06 smplr 2)	155b	35 17 05	86 54 11	244	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 155a. The second sampler was removed after one year, this ADS number DISCONTINUED.
EPA-IV (13)								
Center Hill	264a				00	8/82	9/83	Samples analyzed by RTI
					01	10/83		Samples analyzed by Global Geochem after 10/1/83
Texas (48)								
NADP (01)								
Forest Seed Ctr (453800)	254a	31 33 38	94 51 39	84	00	8/81		
K-Bar (450425)	070a	29 18 07	103 10 38	1056	00	4/80		

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Longview (452180)	282a	32 22 53	94 42 49	107	00	6/82		
Victoria (455350)	071a	28 50 43	96 55 12	31	00	4/80		
UAPSP (08)								
Marshall (17)	247a	32 39 58	94 25 06	81	00	10/81	12/81	Operated under normal UAPSP sampling protocol in last quarter of 1981
					01	1/82	12/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
					02	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
Utah (49)								
NADP (01)								
Cedar Mt (460280)	069a	39 10 15	110 37 05	2356	00	5/81		
Vermont (50)								
NADP (01)								
Bennington (470100)	249a	42 52 34	73 09 48	305	00	4/81		
UAPSP (08)								
Underhill Center (20)	248a	44 31 42	72 52 08	442	00	10/81	12/81	Operated under normal UAPSP sampling protocol in last quarter of 1981
					01	1/82	12/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
					02	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
Virginia (51)								
NADP (01)								
Big Meadows (482890)	250a	38 30 51	78 25 45	1047	00	5/81		
Horton Station (481300)	073a	37 20 06	80 33 28	1051	00	7/78		
MAP3S/PCN (06)								
Virginia (4)	072a	38 02 23	78 32 31	172	00	12/76	8/77	This MAP3S/PCN site started operation with the Battelle Northwest collector, surface area = 490 sq cm.
					01	8/77	9/77	Analysis method changed starting 4-aug-77. NH4 changed from Colorimetry to Ion Chromatography. NA and K changed from Flame Emission Spectrophy to Ion Chromatography.
					02	9/77	3/81	Analysis method changed in September 77. CA and MG changed from Flame Emission Spectrometry to Flame Atomic Absorbtion on 9/14/77. SO4 changed from Colimetry to Colimetry with field fixation on 9/6/77.
					03	4/81		Sample collection instrument changed from Battelle Northwest to Aerochem Metrics model 302-A2 with serface area = 640 sq cm.
Washington (53)								
NADP (01)								
Olympic Nat. Park (491410)	074a	47 51 36	123 55 57	176	00	5/80		

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d	m	s	LONGITUDE d	m	s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
West Virginia (54)												
NADP (01)												
Parsons (501860)	075a	39	05	23	79	39	44	305	00	7/78		
EPRI-SURE (10)												
Lewisburg (09)	158a	37	50	50	80	25	00	701	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NOT USE DATA
									01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 158b.
									02	1/80	3/81	Starting 1/1/80 only one sampler in operation at this EPRI/SURE site STATION TERMINATED March 31, 1981
Lewisburg-2 (09 smplr 2)	158b	37	50	50	80	25	00	701	00	8/78	12/78	Start up phase for this EPRI/SURE site DO NOT USE DATA
									01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 158a. The second sampler was removed after one year, this ADS number DISCONTINUED.
Wisconsin (55)												
NADP (01)												
Lake Dubay (512800)	283a	44	39	53	89	39	08	2113	00	6/82		
Spooner (513700)	077a	45	49	21	91	52	30	331	00	6/80		
Trout Lake (513640)	076a	46	03	09	89	39	11	501	00	1/80		
GLAD (14)												
Cornucopia (510180001)	322a	46	51	44	91	08	13	195	00	2/81		
Green Bay (510360001)	323a	44	31	47	87	55	11	201	00	3/81		
Manitowoc (513600001)	324a	44	03	56	87	39	23	189	00	7/81		
Milwaukee (512200035)	325a	43	04	31	87	53	02	205	00	3/81		
Wyoming (56)												
NADP (01)												
Newcastle (520820)	255a	43	52	24	104	11	32	1466	00	8/81		
Pinedale (520680)	284a	42	55	44	109	47	12	2388	00	1/82		
Yellowstone (520860)	078a	44	55	02	110	25	13	1912	00	6/80		
American Samoa (60)												
NADP (01)												
American Samoa (530190)	172a	14	15	08	170	33	48	73	00	5/80		
Alberta (80)												
CANSAP (05)												
Cononation (04 030)	084a	52	04	00	111	27	00	791	00	4/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Upgrade to Sangamo model C in early 1979
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Edson (04 010)	088a	53	35	00	116	27	00	925	00	1/74	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Upgrade to Sangamo model C in early 1979
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE			LONGITUDE			ELEV	ADS rev	REV	REV	OPERATING HISTORY
		d	m	s	d	m	s	m	num	START	END	
Fort McMurray (04 000)	092a	56	39	00	111	13	00	369	00	5/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Upgrade to Sangamo model C in early 1979
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Lethbridge (04 040)	107a	49	38	13	112	47	16	913	00	5/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Upgrade to Sangamo model C in early 1979
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Rocky Mtn House (04 020)	134a	52	23	00	114	55	00	988	00	5/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Upgrade to Sangamo model C in early 1979
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
British Columbia (81)												
CANSAP (05)												
Fort Nelson (03 000)	093a	58	50	00	122	36	00	925	00	6/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Upgrade to Sangamo model C in early 1979
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Fort St. John (03 010)	096a	56	14	00	120	44	00	695	00	6/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Upgrade to Sangamo model C in early 1979
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Kelowna (03 070)	104a	49	58	00	119	23	00	430	00	5/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Upgrade to Sangamo model C in early 1979
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Port Hardy (03 040)	114a	50	41	00	127	22	00	22	00	5/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Upgrade to Sangamo model C in early 1979
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Prince George (03 030)	115a	53	53	00	122	40	00	691	00	4/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Upgrade to Sangamo model C in early 1979
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Puntzi Mountain (03 080)	286a	52	07	00	124	05	00	911	00	4/74	1/77	Sampler is either Sangamo model A or B
Revelstoke (03 050)	133a	50	58	00	118	11	00	443	00	9/79	1/80	Upgrade to Sangamo model C in early 1979
									01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Terrace (03 020)	124a	54 28 00	128 35 00	217	00	4/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Vancouver (03 060)	128a	49 11 00	123 10 00	2	00	7/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Manitoba (82)								
CANSAP (05)								
Bissett (06 030)	080a	51 02 00	95 40 00	258	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Churchill (06 000)	083a	58 45 00	94 04 00	29	00	6/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Dauphin (06 020)	086a	51 06 00	100 03 00	305	00	4/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
The Pas (06 010)	125a	53 58 00	101 06 00	273	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
New Brunswick (83)								
CANSAP (05)								
Acadia Fes (09 010)	090a	46 00 00	66 22 00	61	00	11/79	1/80	Sangamo model C.
					01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Charlo (09 000)	081a	48 00 00	66 20 00	38	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
St. John (09 020)	119a	45 19 00	65 53 00	109	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Newfoundland (84)								
CANSAP (05)								
Gander (12 010)	097a	48 57 00	54 34 00	151	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Goose (12 000)	098a	53 19 00	60 25 00	36	00	7/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Stephenville (12 020)	123a	48 32 00	58 33 00	26	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
APN (09)								
Baie d'Espoir (12 030)	145a	47 59 00	55 48 00	23	00	11/81		This APN site started operation with the Sangamo model C collector.
Northwest Territories (85)								
CANSAP (05)								
Fort Reliance (01 020)	094a	62 43 00	109 10 00	164	00	7/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Fort Simpson (01 030)	095a	61 45 00	121 14 00	169	00	1/74	8/78	NOT SHURE OF HISTORY IN THIS TIME PERIOD
Hay River (01 040)	099a	60 50 00	115 47 00	166	00	2/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Inuvik (01 010)	101a	68 18 00	133 29 00	68	00	6/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Mould Bay (01 000)	089a	76 14 00	119 20 00	15	00	1/75	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Nova Scotia (86)								
CANSAP (05)								
Kejimkujik (10 020)	103a	44 25 58	65 12 20	152	00	6/78	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80	5/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Sable Island (10 010)	117a	43 56 00	60 01 00	4	00	3/75	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Shelburne (10 030)	121a	43 43 00	65 15 00	30	00	4/75	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Truro (10 000)	127a	45 22 00	63 16 00	40	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
APN (09)								
Kejimkujik (10 019)	103b	44 25 58	65 12 20	152	00	5/79		This APN site started operation with the Sangamo model C collector.
Ontario (87)								
CANSAP (05)								
Armstrong (07 140)	287a	50 17 00	88 54 00	323	00	2/74	11/76	Sampler is either Sangamo model A or B
Atikokan (07 050)	079a	48 45 00	91 37 00	393	00	4/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Dorset (07 060)	087a	45 13 00	78 56 00	319	00	7/79	1/80	Upgrade to Sangamo model C in early 1979
					01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
ELA (07 023)	135a	49 40 00	93 43 00	368	00	8/79	1/80	Upgrade to Sangamo model C in early 1979
					01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Harrow (07 120)	100a	42 02 00	82 54 00	191	00	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Kapuskasing (07 030)	102a	49 24 00	82 26 00	227	00	10/79	1/80	Upgrade to Sangamo model C in early 1979
					01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Kingston (07 070)	106a	44 13 00	76 36 00	92	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Moosonee (07 010)	109a	51 16 00	80 39 00	10	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Mount Forest (07 090)	110a	43 59 29	80 44 46	410	00	7/73	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Peterborough (07 080)	112a	44 14 00	78 21 00	191	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Pickle Lake (07 020)	113a	51 28 00	90 12 00	369	00	2/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Simcoe (07 110)	122a	42 51 00	80 16 00	241	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Trout Lake (07 000)	126a	53 50 00	89 52 00	220	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Wawa (07 130)	129a	47 58 00	84 47 00	287	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	9/79	NOT SURE OF HISTORY IN THIS TIME PERIOD
Windsor (07 150)	131a	42 16 00	82 58 00	190	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	11/79	NOT SURE OF HISTORY IN THIS TIME PERIOD
APIOS-D (07)								
Balsam Lake (3031)	225a	44 37 35	78 51 22	259	00	11/80	2/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					01	2/81	5/81	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					03	11/81	4/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					04	5/82		Warm weather collector and gauge
Charleston Lake (4011)	227a	44 29 54	76 02 30	92	00	1/81	5/81	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					01	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					02	11/81	4/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					03	4/82		Warm weather collector and gauge

ADS sites, sorted by STATE or PROVINCE

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Dorset (3011)	087b	45 13 23	78 55 49	320	00	7/80	1/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					01	1/81	5/81	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					03	11/81	4/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					04	4/82		Warm weather collector and gauge
Fernberg (6051)	231a	47 56 51	91 29 26	506	00	11/81	4/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					01	5/82		Warm weather collector and gauge
Forbes Twsp. (6081)	234a	48 34 58	89 38 56	324	00	9/81	10/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					01	10/81	4/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					02	5/82		Warm weather collector and gauge
Graham Lake (4031)	229a	44 35 22	75 51 44	130	00	10/80	2/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					01	2/81	5/81	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					03	11/81	4/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					04	5/82		Warm weather collector and gauge
Lac La Croix (6061)	208b	48 21 14	92 12 32	368	00	9/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					01	11/81	4/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					02	5/82		Warm weather collector and gauge
Longwoods (1011)	143b	42 53 02	81 28 50	239	00	7/80	1/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					01	1/81	5/81	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					03	11/81	4/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					04	5/82		Warm weather collector and gauge
Melborne (1021)	221a	42 47 15	81 33 23	213	00	11/80	2/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					01	2/81	5/81	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					03	12/81	4/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					04	5/82		Warm weather collector and gauge

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Nithgrove (3021)	224a	45 12 01	79 04 14	335	00	1/81	5/81	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					01	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					02	11/81	4/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					03	4/82		Warm weather collector and gauge
North Easthope (1031)	222a	43 24 21	80 53 35	375	00	11/80	1/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					01	1/81	5/81	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					03	11/81	4/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					04	5/82		Warm weather collector and gauge
Quetico Centre (6071)	233a	48 24 44	91 12 08	420	00	10/81	5/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					01	5/82		Warm weather collector and gauge
Railton (4021)	228a	44 22 34	76 35 33	137	00	7/80	1/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					01	1/81	5/81	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					03	11/81	4/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					04	5/82		Warm weather collector and gauge
Raven Lake (3041)	226a	44 36 40	78 54 43	274	00	2/81	5/81	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					01	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					03	11/81	4/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					04	5/82		Warm weather collector and gauge
Wellesly (2011)	223a	43 28 13	80 45 35	344	00	1/81	5/81	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					01	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					02	11/81	4/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					03	5/82		Warm weather collector and gauge
Whitman Creek (4041)	230a	44 29 07	76 49 19	137	00	10/80	11/80	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					01	11/80	5/81	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					03	11/81	4/82	Cold weather collector = SES bulk sampler and Nipher-shielded snow gague.
					04	5/82		Warm weather collector and gauge

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
APN (09)								
Algoma (07 054)	140a	47 06 00	84 06 00	9999	00	9/78		This APN site started operation with the Sangamo model C collector.
Chalk River (07 056)	141a	46 06 00	77 24 00	122	00	11/78	3/79	Sampler is either Sangamo model A or B
					01	3/79		Upgrade to Sangamo model C in early 1979
ELA (07 024)	135b	49 40 00	93 43 00	368	00	11/78	3/79	Sampler is either Sangamo model A or B
					01	3/79		Upgrade to Sangamo model C in early 1979
Long Point (07 094)	142a	42 60 00	80 50 00	175	00	11/78		This APN site started operation with the Sangamo model C collector.
Longwoods (07 100)	143a	42 53 00	81 29 00	239	00	12/82		This APN site started operation with the Sangamo model C collector.
APIOS-C (12)								
Alvinston (1081)	180a	42 49 36	81 50 04	221	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Attawapiskat (5081)	202a	52 56 00	82 24 00	9	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Bear Island (5041)	198a	46 58 22	80 04 40	305	00	5/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Campbellford (3081)	189a	44 17 28	77 47 33	175	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Colchester (1041)	176a	41 59 15	82 55 41	183	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Coldwater (3101)	190a	44 37 31	79 32 08	280	00	8/81	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Dalhousie Mills (4071)	193a	45 19 00	74 28 13	69	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Dorion (6011)	204a	48 50 33	88 36 45	244	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Dorset (3011)	087c	45 13 26	78 55 52	320	00	5/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Ear Falls (6031)	206a	50 38 31	93 13 13	350	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Experimental Lake (6091)	210a	49 39 22	93 43 28	123	00	10/81	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Golden Lake (4081)	194a	45 36 48	77 12 03	160	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Gowganda (5061)	200a	47 39 04	80 46 32	343	00	7/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Huron Park (1191)	183a	43 17 28	81 30 03	250	00	10/81	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Kaladar (4051)	191a	44 41 31	77 09 18	244	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Killarney (5021)	196a	45 59 26	81 29 18	183	00	5/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Lac La Croix (6061)	208a	48 21 14	92 12 32	368	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Mattawa (5031)	197a	46 16 45	78 49 19	198	00	8/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
McKellar (5011)	195a	45 30 57	79 55 19	244	00	8/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Merlin (1051)	177a	42 14 47	82 13 30	191	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Milton (3051)	186a	43 31 05	79 55 54	221	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Moonbeam (5071)	201a	49 19 16	82 08 46	244	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Nakina (6021)	205a	50 10 38	86 42 40	320	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Palmerson (1101)	182a	43 48 19	80 54 12	389	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Pickle Lake (6041)	207a	51 27 41	90 12 04	360	00	7/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Port Stanley (1061)	178a	42 40 22	81 09 55	213	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982

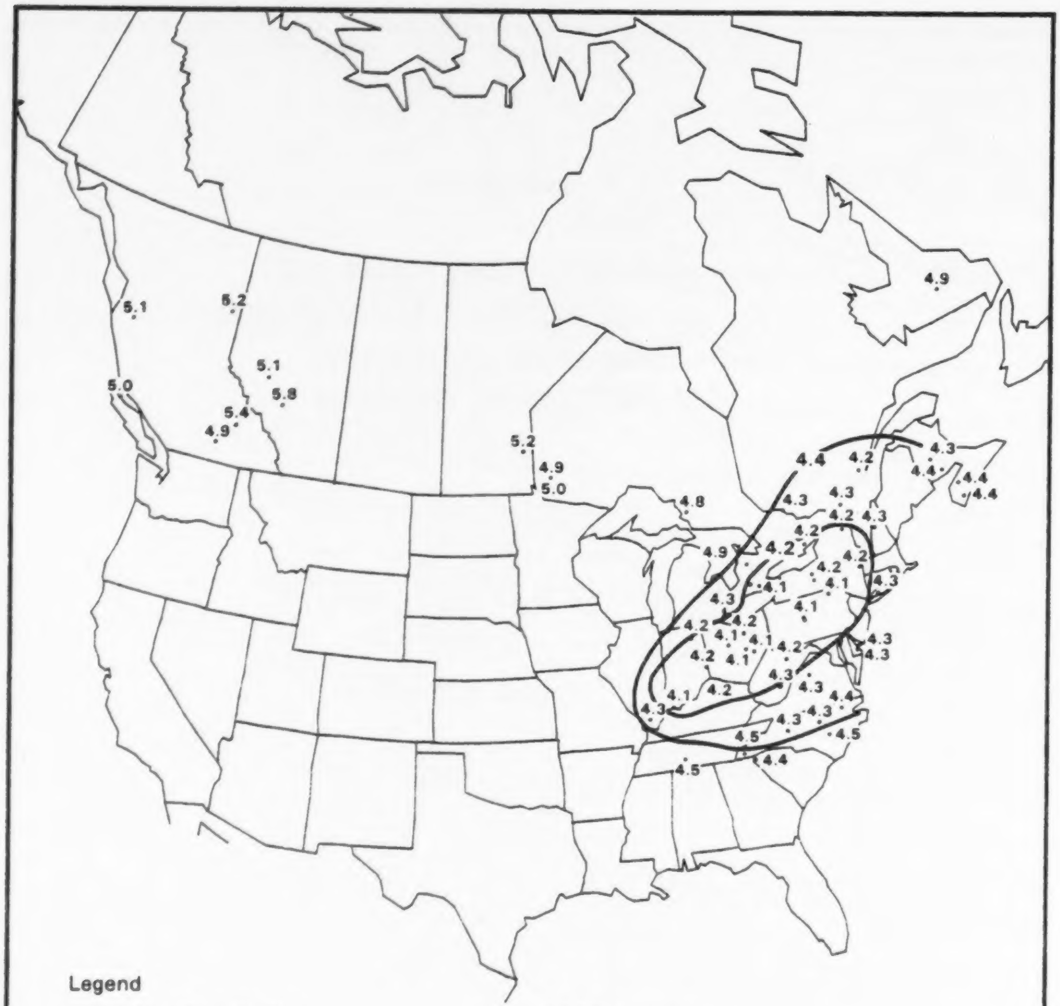
STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Quetico Centre (6071)	209a	48 44 24	91 12 08	420	00	11/81	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Ramsey (5051)	199a	47 26 33	82 20 14	427	00	5/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Shallow Lake (1091)	181a	44 34 54	81 05 24	229	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Smith's Falls (4061)	192a	44 56 41	75 57 48	122	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Uxbridge (3061)	187a	44 12 46	79 12 38	244	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Waterloo (2021)	184a	43 28 39	80 35 09	343	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Whitney (5091)	203a	45 32 21	78 15 35	412	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Wilberforce (3071)	188a	45 00 54	78 12 58	396	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Wilkesport (1071)	179a	42 42 11	82 21 13	183	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Winisk (6101)	211a	55 12 00	85 08 00	9	00	9/80	12/81	Sample collected on last working day of each month.
					01	1/82	10/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Quebec (89)								
CANSAP (05)								
Chibougamau (08 030)	082a	49 49 00	74 25 00	402	00	4/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Fort Chimo (08 000)	091a	58 06 00	68 25 00	36	00	4/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Maniwaki (08 050)	108a	46 23 00	75 58 00	170	00	5/75	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Nitchequon (08 010)	111a	53 12 00	70 54 00	536	00	4/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Quebec City (08 040)	116a	46 48 00	71 24 00	73	00	4/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Upgrade to Sangamo model C in early 1979
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.

```
STATE                                   ADS                                ADS
  NETWORK                               SITE  LATITUDE LONGITUDE   ELEV rev  REV   REV
    SITE NAME                           IDENT  d  m  s   d  m  s     m  num START END              OPERATING HISTORY

     Sept Isles (08 020)                120a  50 13 00  66 15 00    55 00   4/77  3/79 Sampler is either Sangamo model A or B
                                                                       01   3/79  1/80 Upgrade to Sangamo model C in early 1979
                                                                       02   1/80       On 1/1/80, the use of a single bucket for
                                                                                       entire month was DISCONTINUED.  Subsequent
                                                                                       samples are composited in the field.
     St. Hubert (08 060)                118a  45 31 00  73 25 00    27 00   4/77  3/79 Sampler is either Sangamo model A or B
                                                                       01   3/79  1/80 Upgrade to Sangamo model C in early 1979
                                                                       02   1/80       On 1/1/80, the use of a single bucket for
                                                                                       entire month was DISCONTINUED.  Subsequent
                                                                                       samples are composited in the field.
  APN (09)
     Montmorency (08 034)               144a  47 19 00  71 09 00   640 00  12/80       This APN site strated operation with the
                                                                                       Sangamo model C collector.

Saskatchewan (90)
  CANSAP (05)
     Cree Lake (05 000)                 085a  57 21 00 107 08 00   499 00   5/77  3/79 Sampler is either Sangamo model A or B
                                                                       01   3/79  1/80 Upgrade to Sangamo model C in early 1979
                                                                       02   1/80       On 1/1/80, the use of a single bucket for
                                                                                       entire month was DISCONTINUED.  Subsequent
                                                                                       samples are composited in the field.
     Kindersley (05 010)                105a  51 28 00 109 10 00   683 00   4/77  3/79 Sampler is either Sangamo model A or B
                                                                       01   3/79  1/80 Upgrade to Sangamo model C in early 1979
                                                                       02   1/80       On 1/1/80, the use of a single bucket for
                                                                                       entire month was DISCONTINUED.  Subsequent
                                                                                       samples are composited in the field.
     Wynyard (05 020)                   132a  51 46 00 104 12 00   561 00   2/74  3/79 Sampler is either Sangamo model A or B
                                                                       01   3/79  1/80 Upgrade to Sangamo model C in early 1979
                                                                       02   1/80       On 1/1/80, the use of a single bucket for
                                                                                       entire month was DISCONTINUED.  Subsequent
                                                                                       samples are composited in the field.
  APN (09)
     Cree Lake (05 001)                 085b  57 21 00 107 08 00   499 00   7/82       Upgrade to Sangamo model C in early 1979

Yukon Territory (91)
  CANSAP (05)
     Whitehorse (02 000)                130a  60 43 00 135 04 00   703 00   7/77  3/79 Sampler is either Sangamo model A or B
                                                                       01   3/79  1/80 Upgrade to Sangamo model C in early 1979
                                                                       02   1/80       On 1/1/80, the use of a single bucket for
                                                                                       entire month was DISCONTINUED.  Subsequent
                                                                                       samples are composited in the field.
```

APPENDIX B

1980 ANNUAL ISOPLETH MAPS FOR pH, SO_4^{2-} AND NO_3^- PRECIPITATION WEIGHTED MEAN CONCENTRATIONS AND H^+, SO_4^{2-} AND NO_3^- DEPOSITION

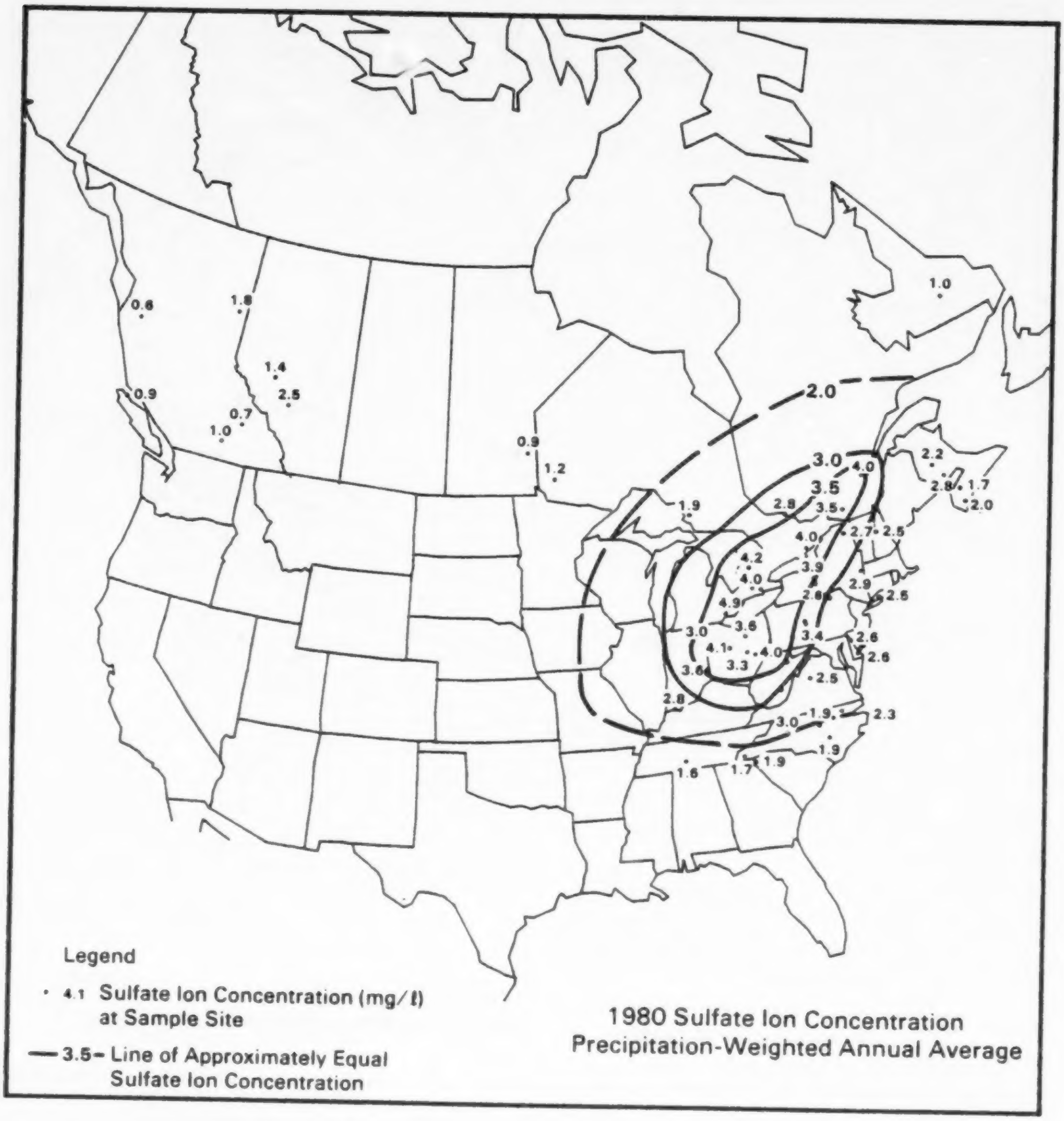

4.9
5.1
5.2
5.1
5.0
5.8
5.4
4.9
5.2
4.3
4.4
4.2
4.9
4.4
4.4
5.0
4.4
4.3
4.3
4.8
4.2
4.3
4.2
4.9
4.2
4.2
4.2
4.3
4.1
4.1
4.3
4.1
4.2
4.2
4.1
4.1
4.3
4.2
4.2
4.1
4.3
4.3
4.3
4.2
4.1
4.4
4.3
4.3
4.3
4.5
4.5
4.4
4.5

Legend

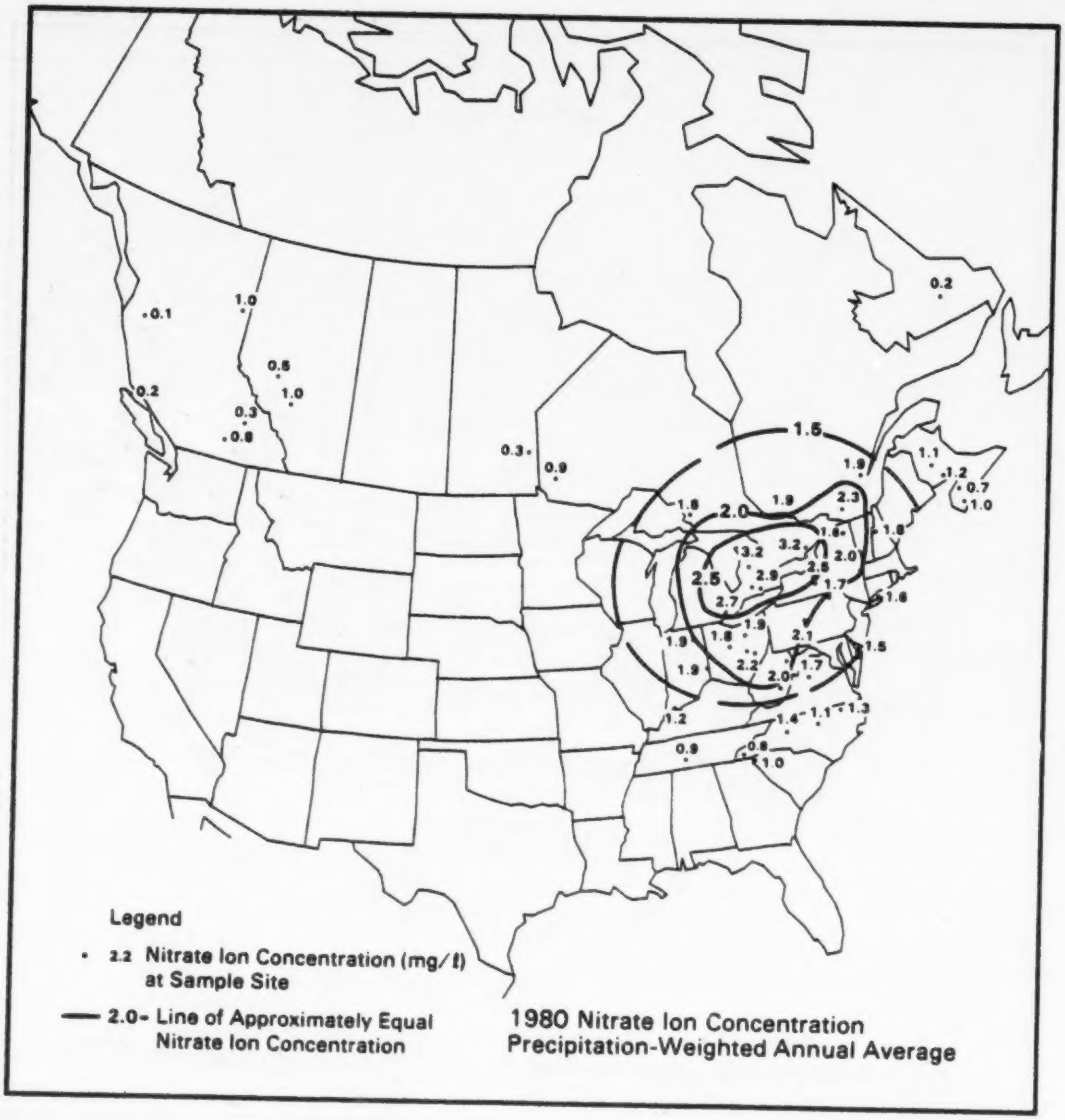
• 4.3 pH at Sample Site

— 4.4 Line of Approximately Equal pH Value

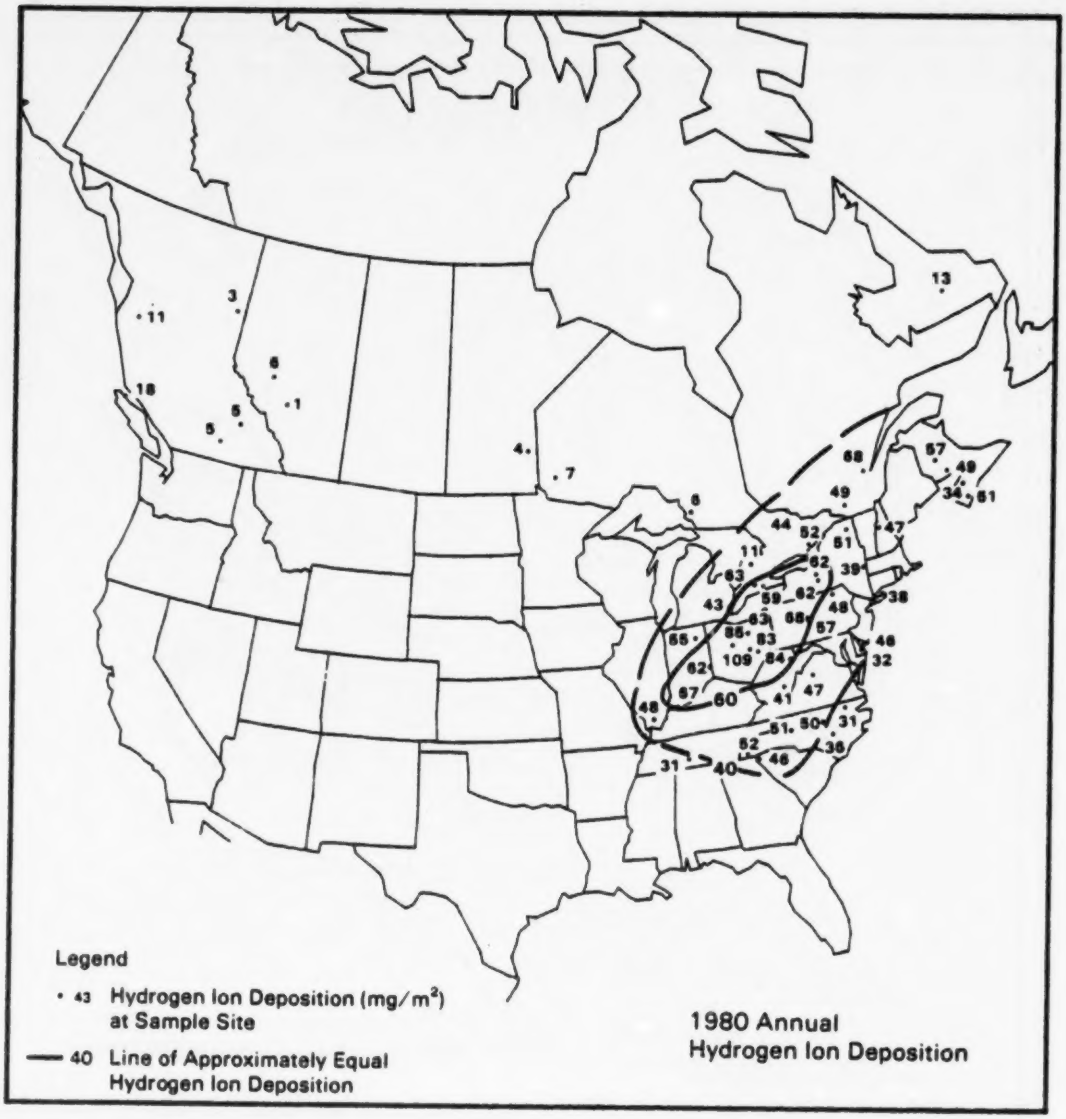
1980 Annual
pH Precipitation Weighted Average


1.0
0.6
1.8
1.4
2.5
0.9
0.7
1.0
0.9
1.2
2.0
3.0
4.0
3.5
2.2
2.8
1.7
2.0
1.9
2.8
3.5
4.0
2.7
2.5
4.2
4.0
3.9
2.9
2.8
2.5
4.9
3.0
3.6
3.4
2.6
4.1
4.0
3.3
2.6
3.6
2.5
2.8
3.0
1.9
2.3
1.9
1.6
1.7
1.9
Legend
4.1 Sulfate Ion Concentration (mg/l) at Sample Site
3.5 Line of Approximately Equal Sulfate Ion Concentration

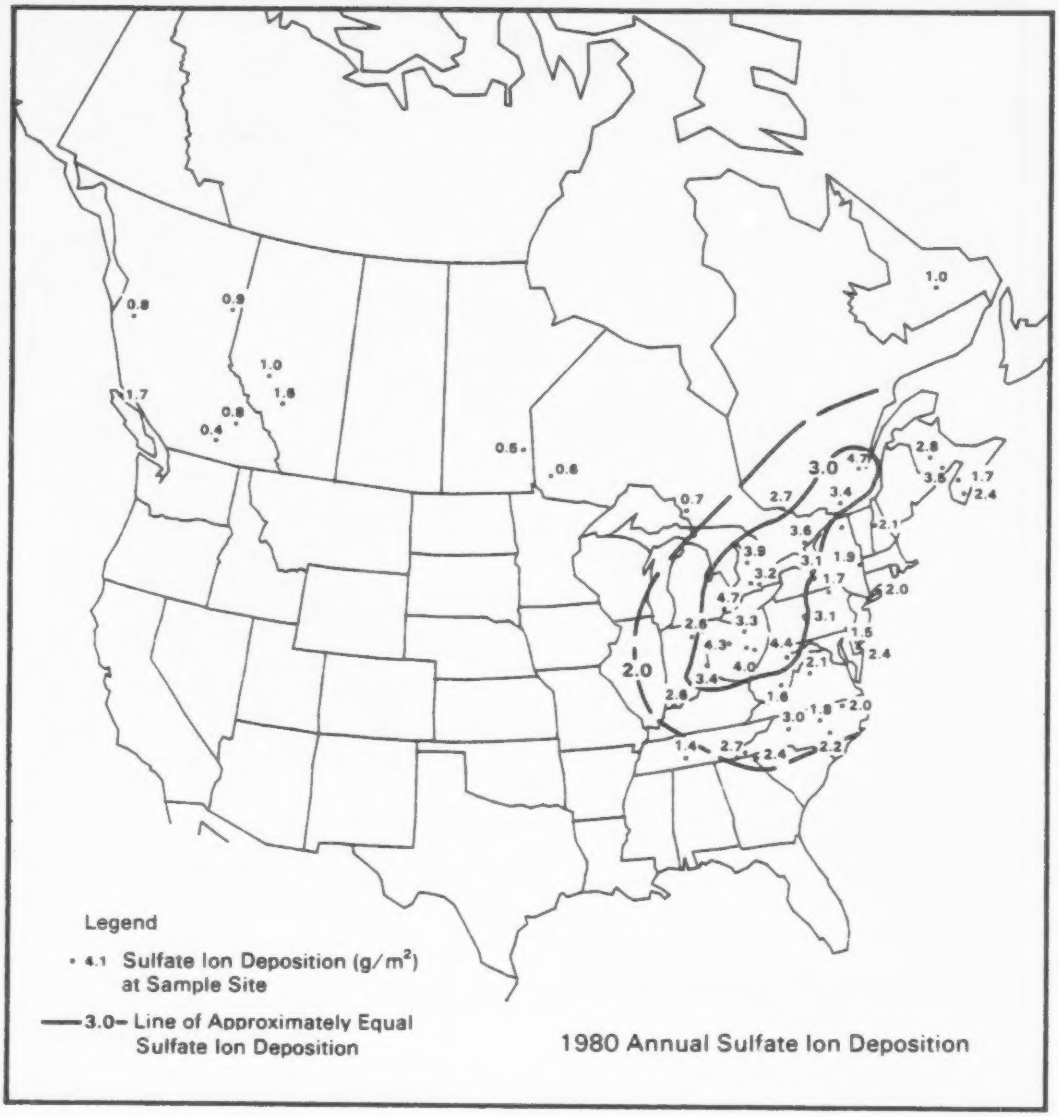
1980 Sulfate Ion Concentration
Precipitation-Weighted Annual Average


0.1
1.0
0.5
1.0
0.2
0.3
0.8
0.3
0.9
0.2
1.5
1.9
1.1
1.2
0.7
1.0
1.8
2.0
1.9
2.3
1.6
1.8
3.2
3.2
2.0
2.5
2.9
2.5
1.7
1.6
2.7
1.9
1.9
1.8
2.1
1.5
1.9
2.2
1.7
2.0
1.2
1.4
1.1
1.3
0.9
0.8
1.0
Legend
2.2 Nitrate Ion Concentration (mg/ℓ) at Sample Site
2.0 Line of Approximately Equal Nitrate Ion Concentration

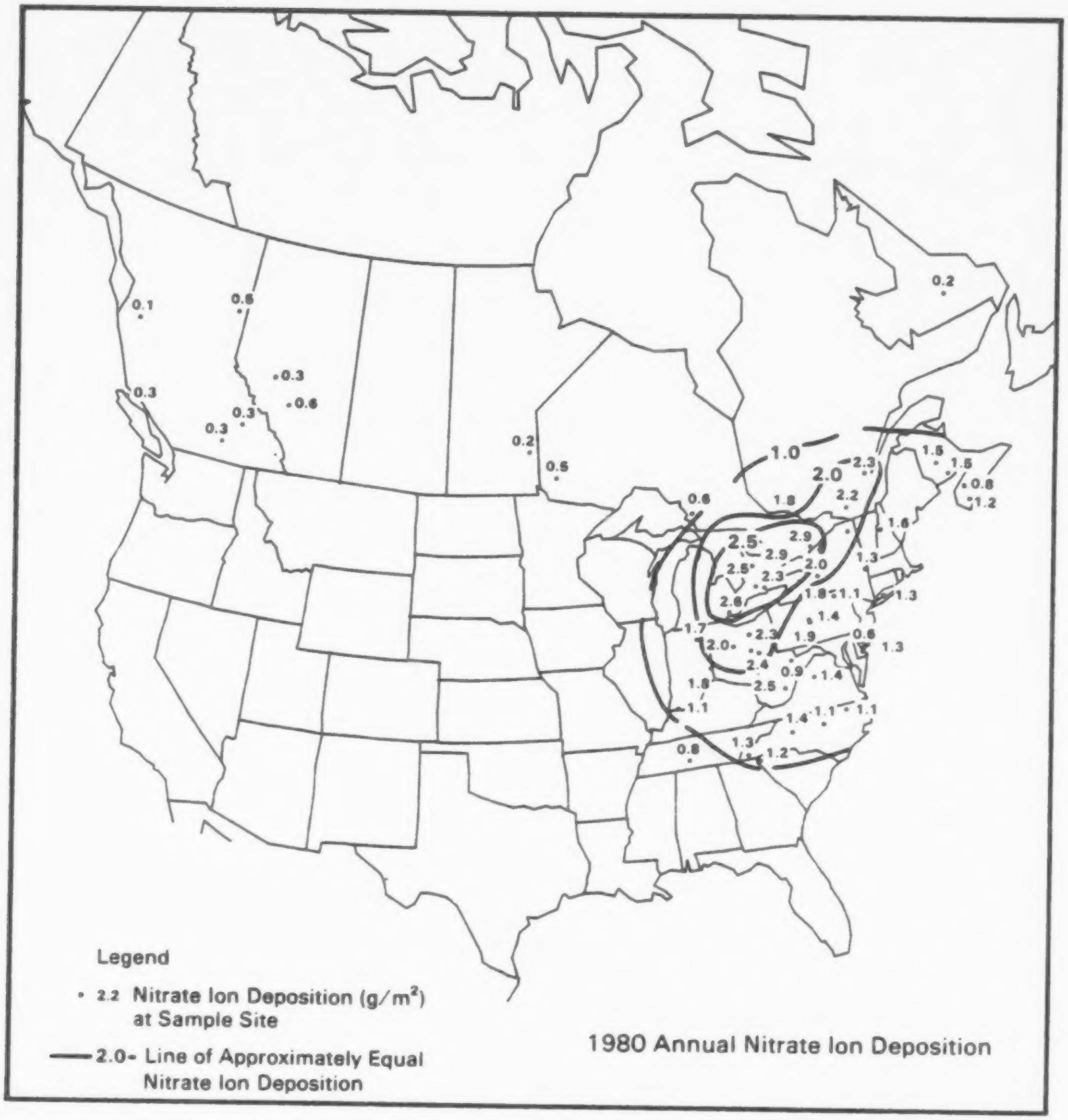
1980 Nitrate Ion Concentration
Precipitation-Weighted Annual Average


11
3
18
6
1
5
5
4
7
13
68
57
49
34
51
49
8
44
52
51
47
11
62
39
63
62
38
59
43
48
63
68
57
55
85
83
46
109
84
32
62
47
57
60
41
48
51
50
31
52
38
31
40
46
Legend
• 43 Hydrogen Ion Deposition (mg/m²) at Sample Site
— 40 Line of Approximately Equal Hydrogen Ion Deposition

1980 Annual
Hydrogen Ion Deposition


Legend
• 4.1 Sulfate Ion Deposition (g/m²) at Sample Site
—3.0— Line of Approximately Equal Sulfate Ion Deposition
3.0
2.0

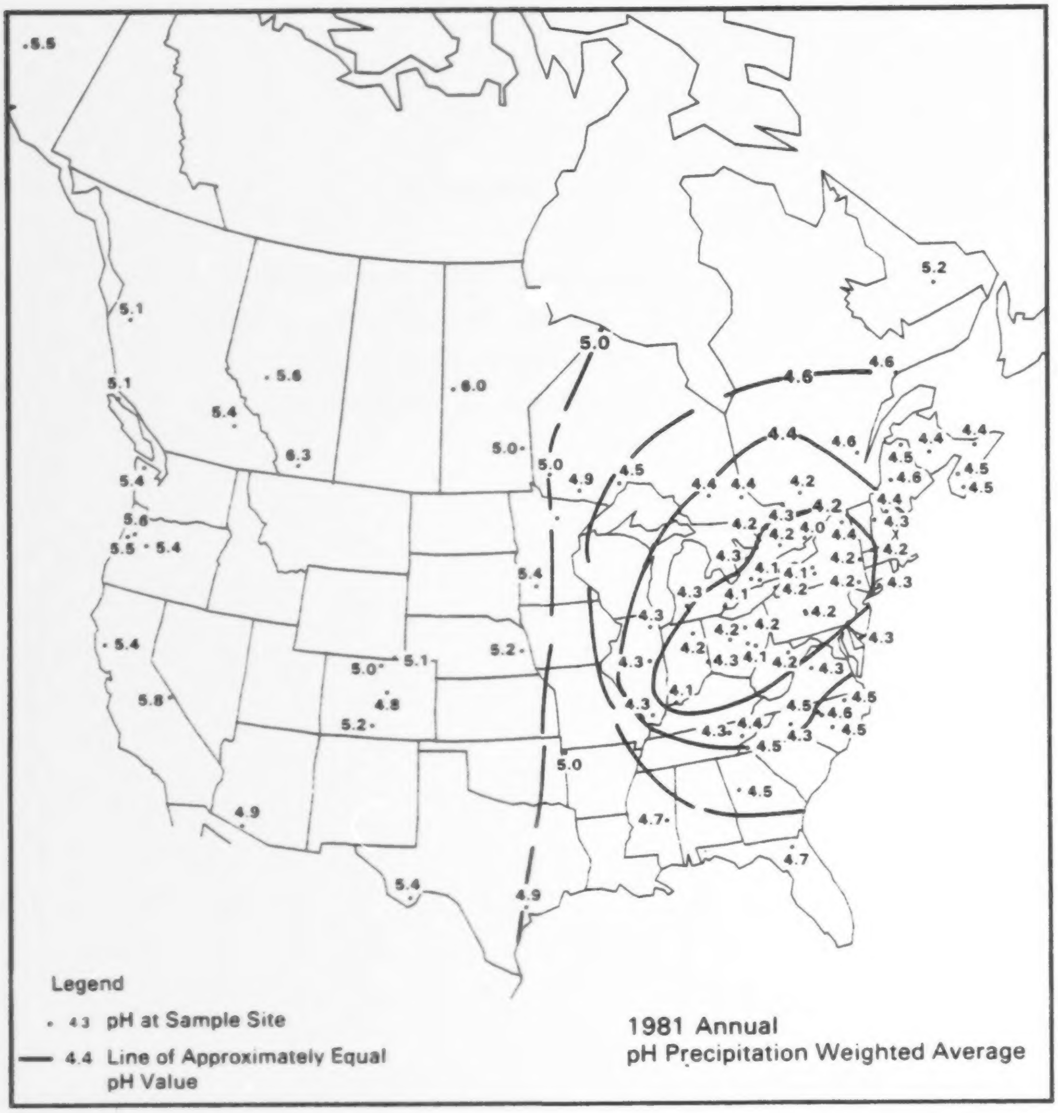
1980 Annual Sulfate Ion Deposition


0.2
0.1
0.6
0.3
0.6
0.3
0.3
0.3
0.2
0.5
1.0
2.0
2.3
1.5
1.5
0.8
1.2
0.6
1.8
2.2
1.6
2.5
2.9
2.9
2.0
1.3
2.5
2.3
2.6
1.8
1.1
1.3
1.4
1.7
2.3
1.9
0.6
1.3
2.0
2.4
0.9
1.4
1.8
2.5
1.1
1.4
1.1
1.1
0.8
1.3
1.2
Legend
2.2 Nitrate Ion Deposition (g/m²) at Sample Site
2.0 Line of Approximately Equal Nitrate Ion Deposition

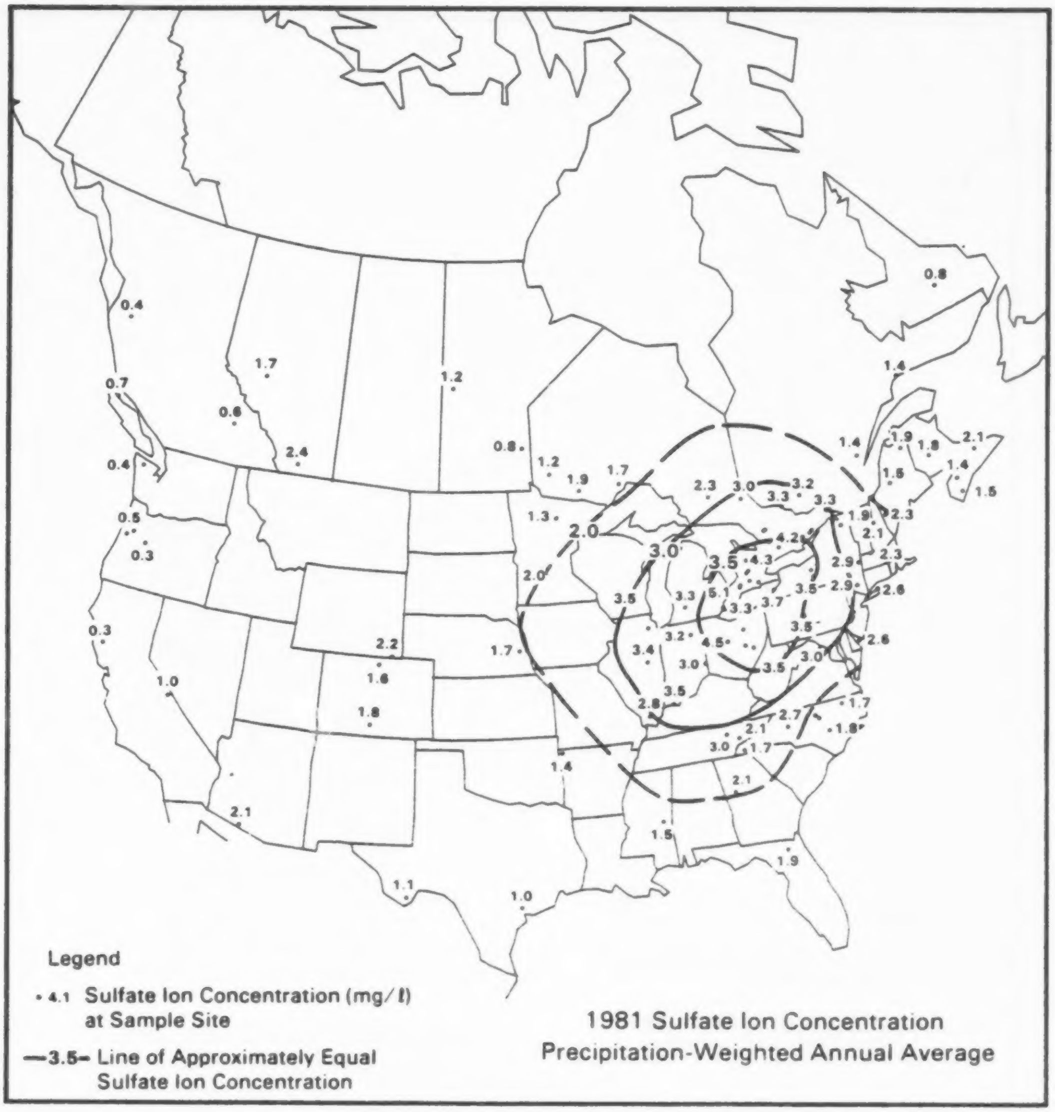
1980 Annual Nitrate Ion Deposition

APPENDIX C

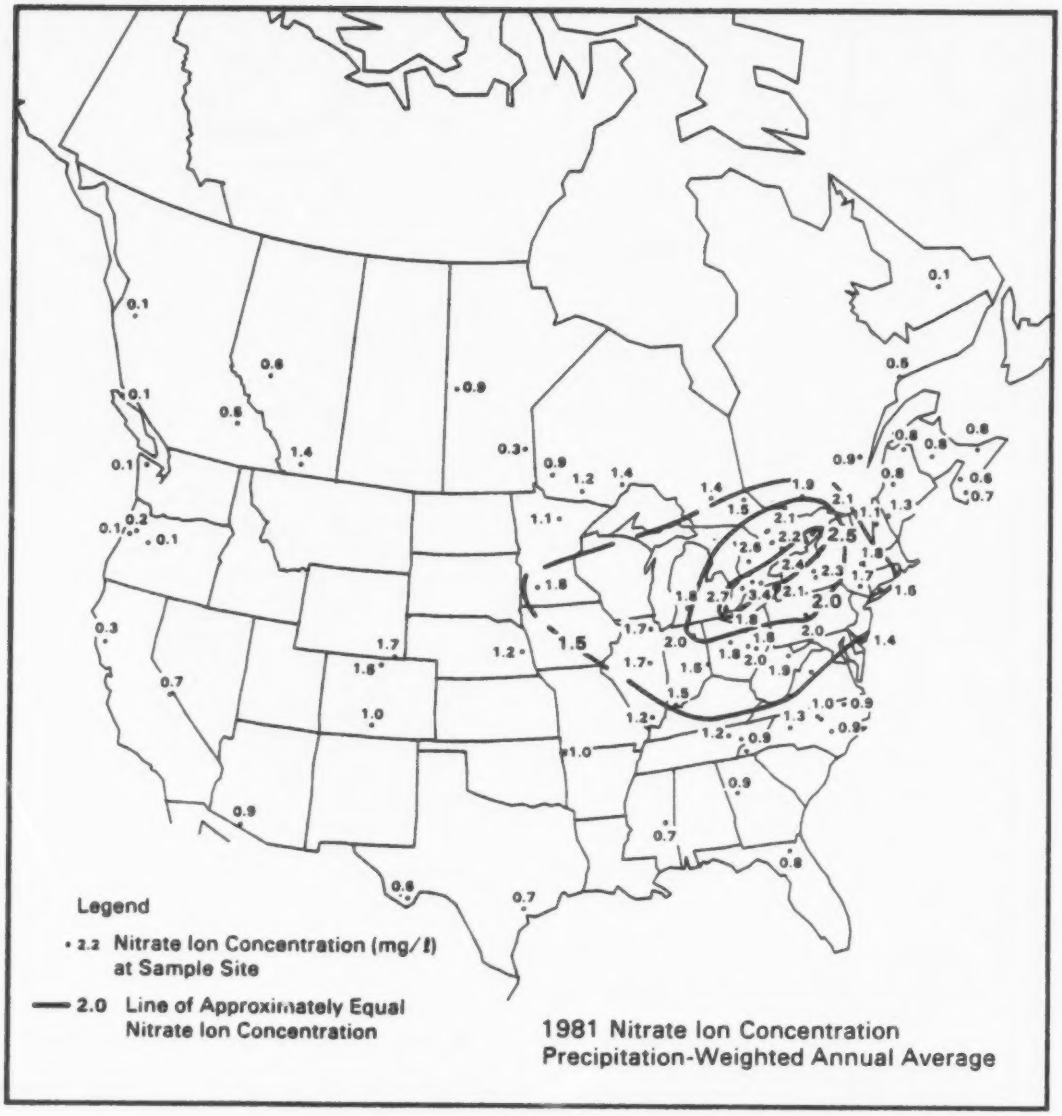
1981 ANNUAL ISOPLETH MAPS FOR pH, SO_4^{2-} AND NO_3^- PRECIPITATION WEIGHTED MEAN CONCENTRATIONS AND H^+, SO_4^{2-} AND NO_3^- DEPOSITION


Legend
• 4.3 pH at Sample Site
— 4.4 Line of Approximately Equal pH Value

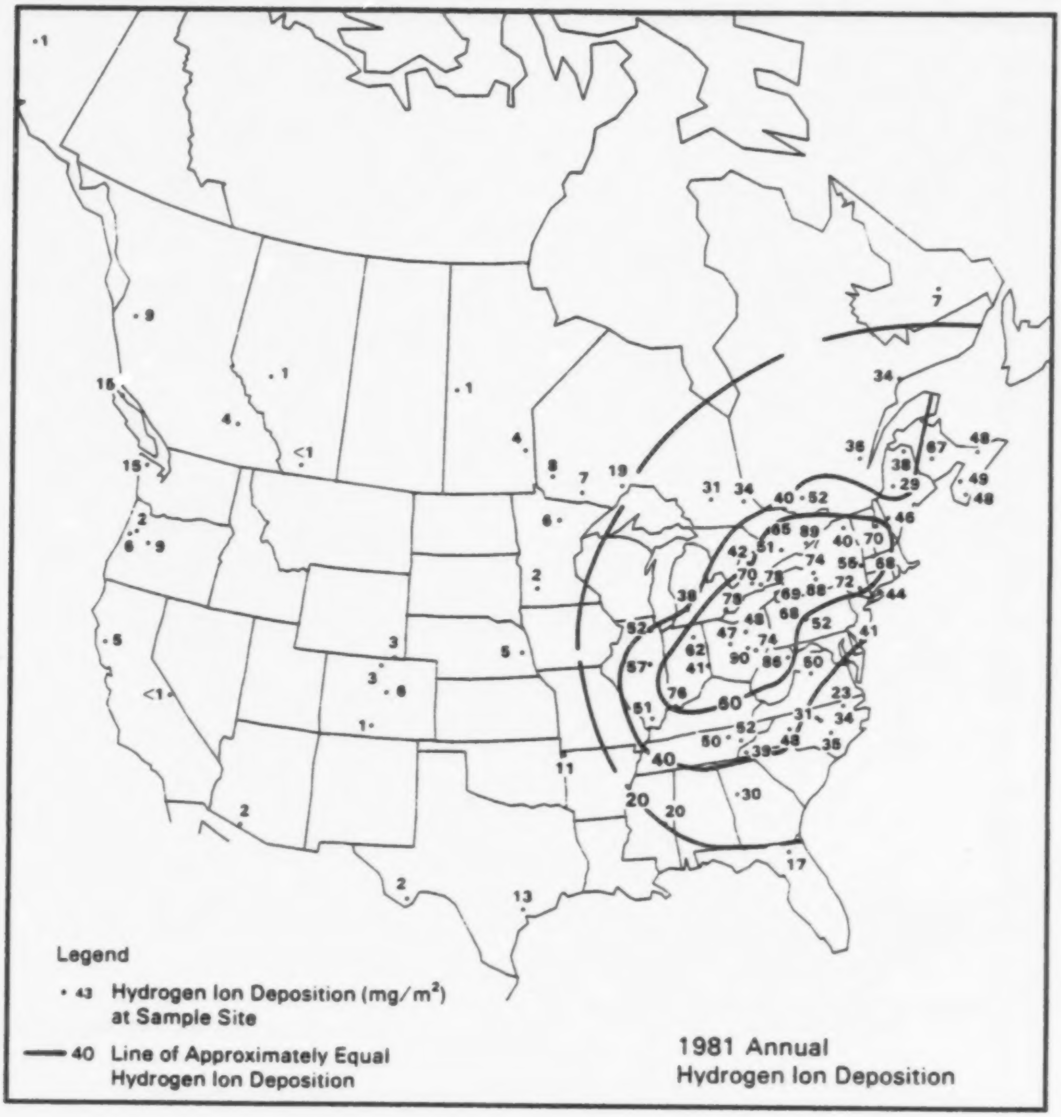
1981 Annual
pH Precipitation Weighted Average


0.8
1.4
0.4
1.7
1.2
0.7
0.6
2.4
0.8
1.2
1.9
1.7
0.4
1.4
1.9
1.8
2.1
1.4
1.5
1.5
2.3
3.0
3.2
3.3
3.3
1.9
2.3
0.5
0.3
1.3
2.0
4.2
2.1
3.0
3.5
4.3
2.3
2.0
2.9
3.5
3.3
5.1
3.5
2.9
2.6
3.3
3.7
0.3
3.5
2.2
3.2
4.5
2.6
1.7
3.4
1.6
3.0
3.5
3.0
1.0
3.5
1.8
2.8
1.7
2.7
2.1
1.8
3.0
1.7
1.4
2.1
2.1
1.5
1.9
1.1
1.0
Legend
4.1 Sulfate Ion Concentration (mg/l) at Sample Site
3.5 Line of Approximately Equal Sulfate Ion Concentration

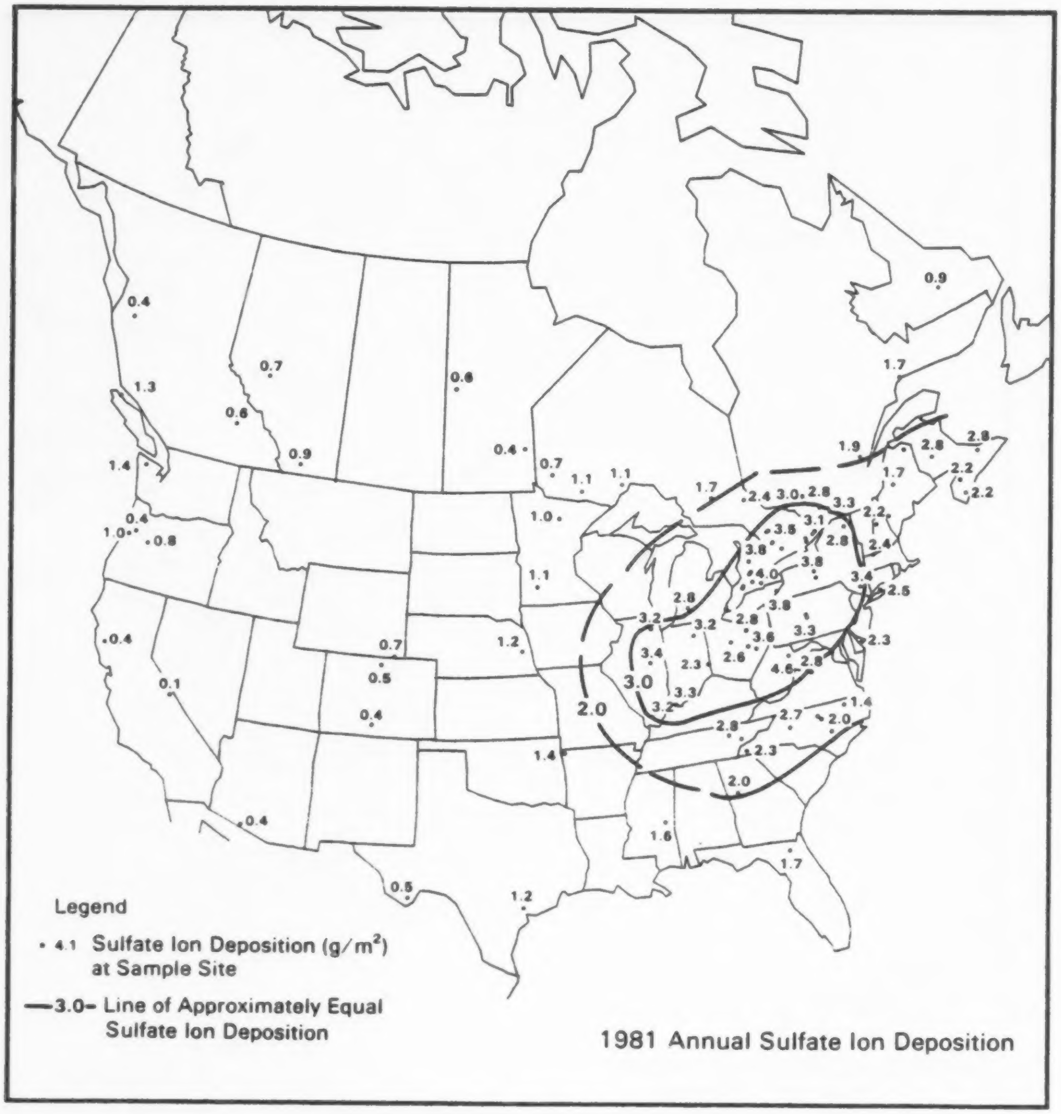
1981 Sulfate Ion Concentration
Precipitation-Weighted Annual Average


Legend
• 2.2 Nitrate Ion Concentration (mg/ℓ) at Sample Site
— 2.0 Line of Approximately Equal Nitrate Ion Concentration
0.1
0.1
0.1
0.1
0.2
0.1
0.6
0.5
1.4
0.9
0.3
0.9
1.2
1.4
1.1
1.8
1.5
1.2
1.7
1.6
1.0
0.3
0.7
0.9
0.6
0.7
1.0
1.4
1.5
1.9
2.1
2.1
2.6
2.2
2.5
2.4
2.3
1.8
1.7
1.6
1.1
1.3
0.9
0.8
0.8
0.8
0.8
0.6
0.7
0.1
0.5
1.8
2.7
3.4
2.1
2.0
1.8
2.0
1.7
2.0
1.7
1.6
1.8
1.8
2.0
1.9
1.4
1.5
1.2
1.0
0.9
1.3
0.9
1.2
0.9
0.9
0.7
0.8

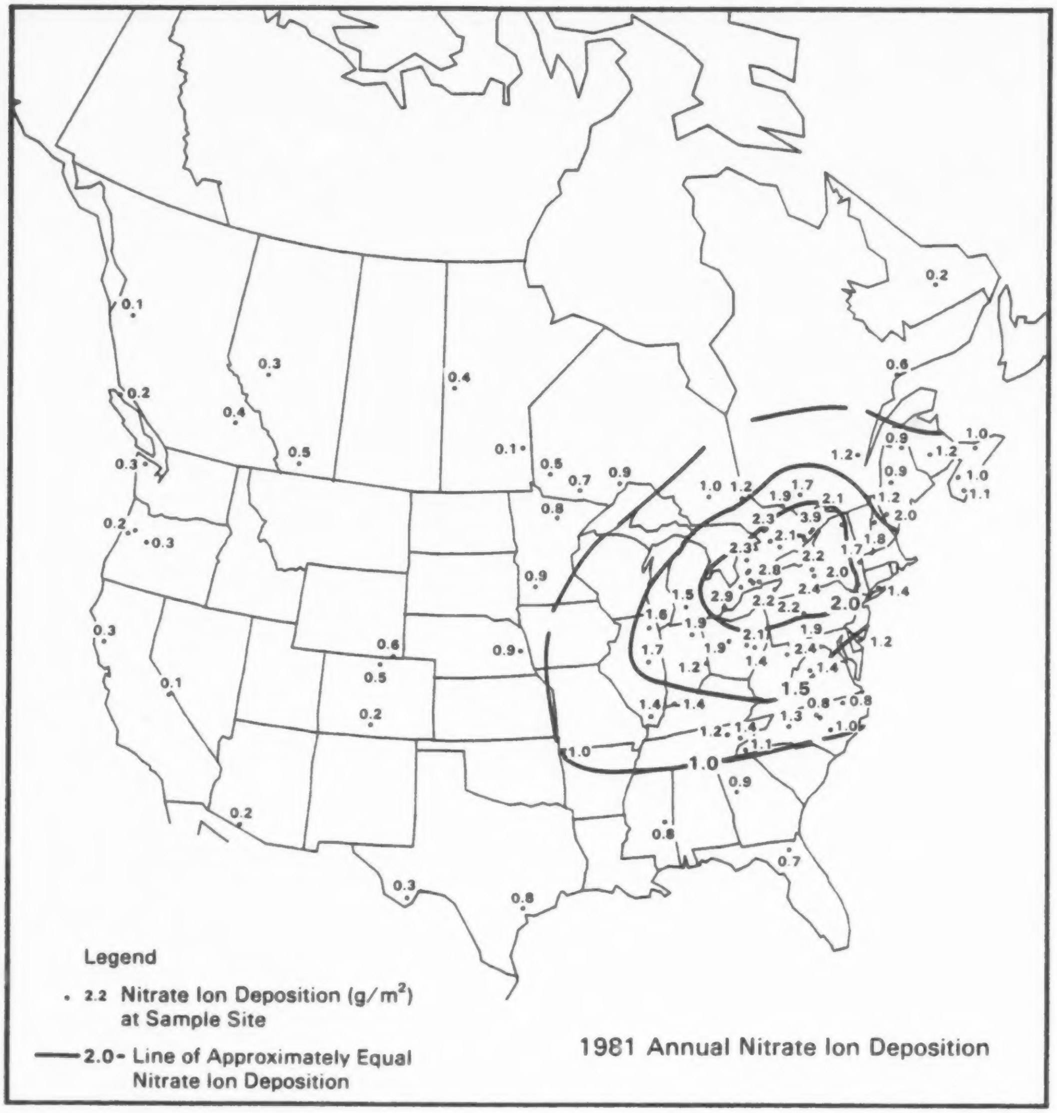
1981 Nitrate Ion Concentration
Precipitation-Weighted Annual Average


Legend
• 43 Hydrogen Ion Deposition (mg/m²) at Sample Site
40 Line of Approximately Equal Hydrogen Ion Deposition

1981 Annual
Hydrogen Ion Deposition


0.9
0.4
1.7
0.7
0.6
1.3
0.6
1.9
2.8
2.8
0.9
0.4
0.7
1.4
1.1
1.1
1.7
2.2
1.7
2.4
3.0
2.8
2.2
3.3
0.4
1.0
3.5
3.1
2.2
1.0
0.8
3.8
2.8
2.4
3.8
4.0
1.1
3.4
2.5
2.8
3.8
3.2
3.2
2.8
3.6
3.3
0.4
1.2
0.7
2.3
3.4
2.3
2.6
2.8
0.5
0.1
3.0
4.6
3.3
2.0
3.2
1.4
0.4
2.7
2.0
2.8
1.4
2.3
2.0
1.6
0.4
1.7
0.5
1.2
Legend
• 4.1 Sulfate Ion Deposition (g/m²) at Sample Site
—3.0— Line of Approximately Equal Sulfate Ion Deposition

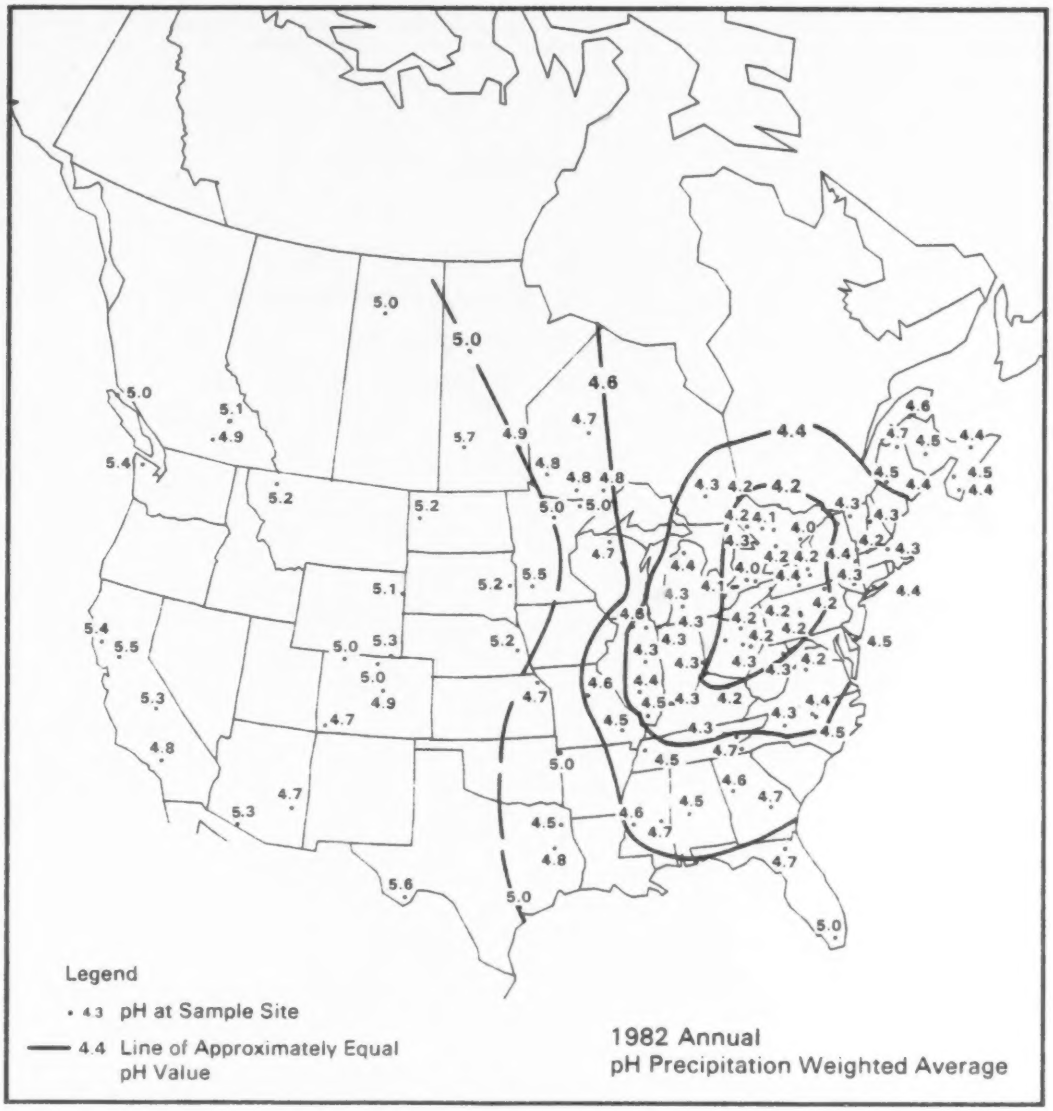
1981 Annual Sulfate Ion Deposition


0.2
0.1
0.3
0.4
0.6
0.2
0.4
0.3
0.5
0.1
0.5
0.7
0.9
1.2
0.9
1.2
1.0
1.0
1.2
1.7
1.9
2.1
0.9
1.0
1.1
1.2
0.8
0.2
0.3
2.3
3.9
2.0
2.1
2.3
2.2
1.7
1.8
0.9
2.8
2.0
1.5
2.9
2.2
2.2
2.4
2.0
1.4
1.6
1.9
0.3
0.6
0.9
2.1
1.9
1.7
1.9
2.4
1.2
1.2
1.4
0.5
0.1
1.5
1.4
1.4
0.2
1.3
0.8
0.8
1.2
1.4
1.0
1.0
1.1
1.0
0.9
0.2
0.8
0.7
0.3
0.8
Legend
2.2 Nitrate Ion Deposition (g/m²) at Sample Site
2.0 Line of Approximately Equal Nitrate Ion Deposition

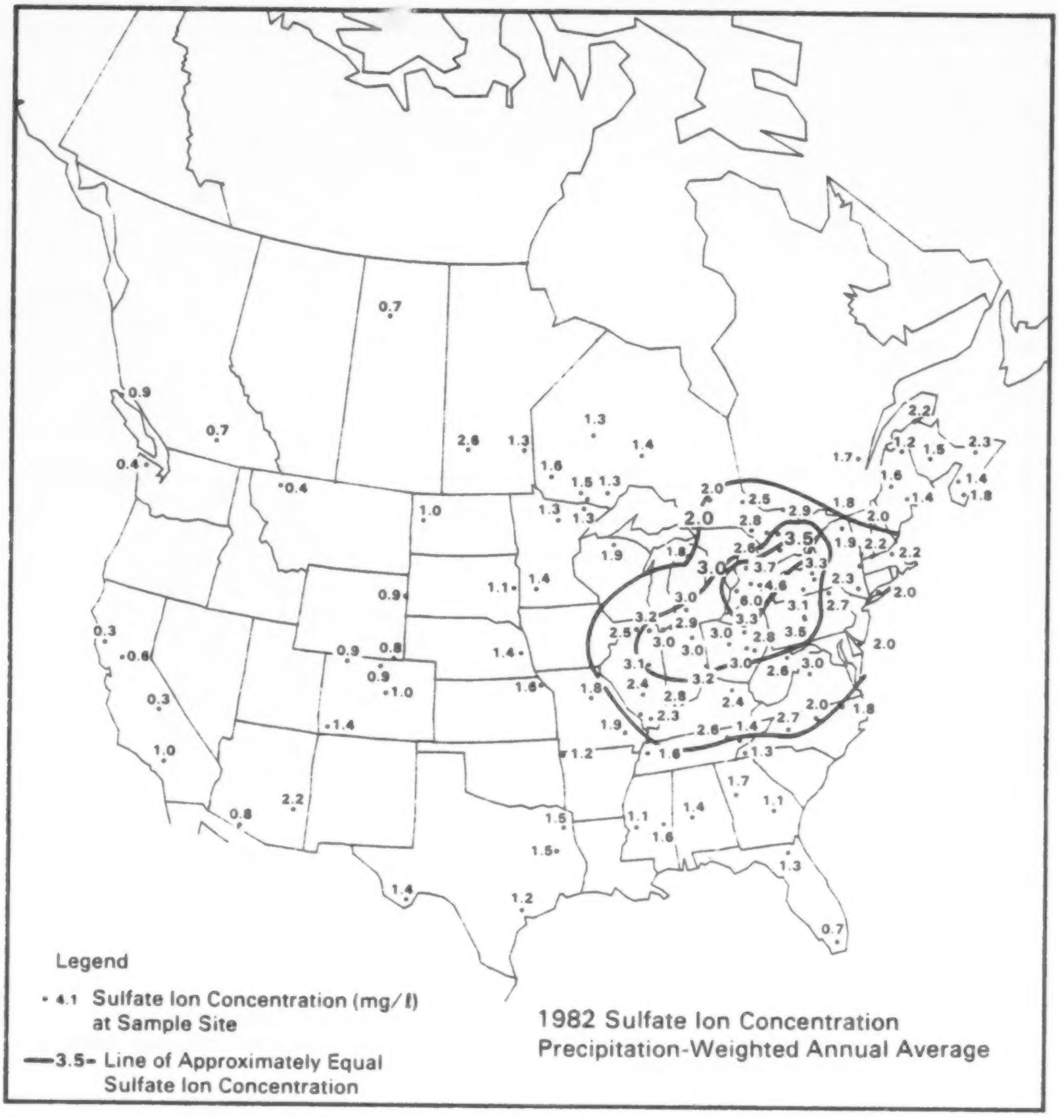
1981 Annual Nitrate Ion Deposition

APPENDIX D

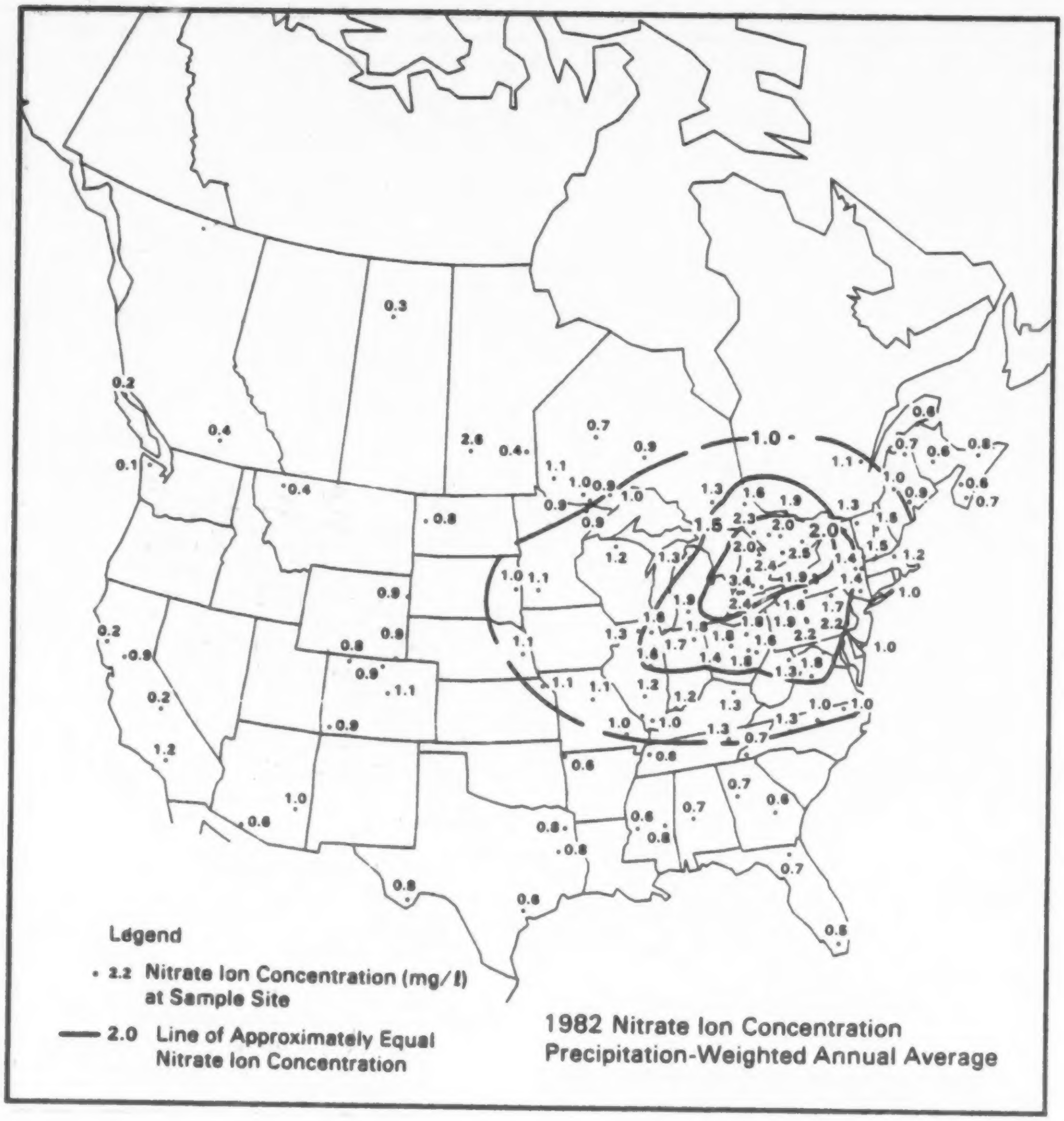
1982 ANNUAL ISOPLETH MAPS FOR pH, SO_4^{2-} AND NO_3^- PRECIPITATION WEIGHTED MEAN CONCENTRATIONS AND H^+, SO_4^{2-} AND NO_3^- DEPOSITION


Legend
• 4.3 pH at Sample Site
— 4.4 Line of Approximately Equal pH Value
5.0
4.6
4.4
4.2

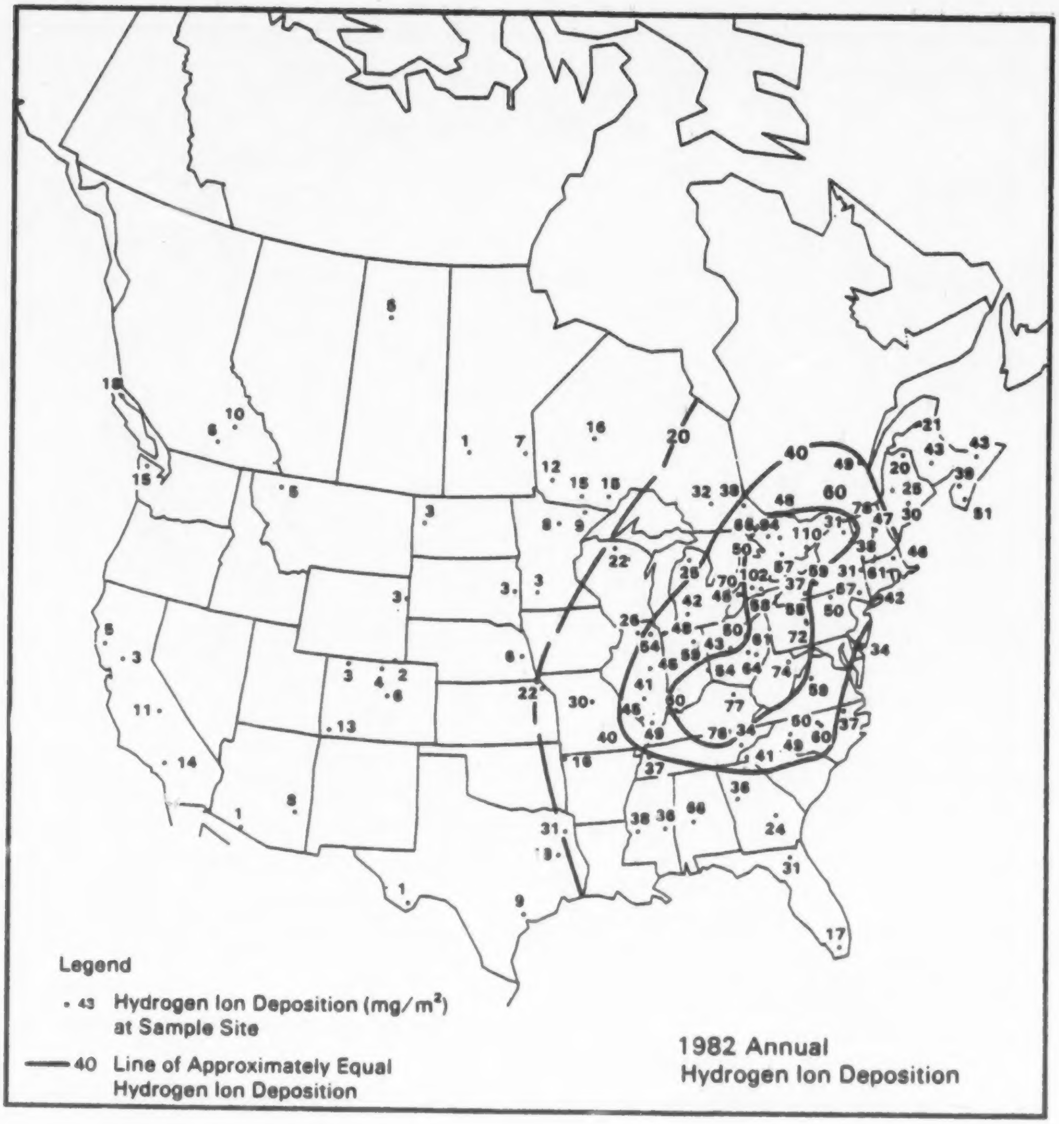
1982 Annual
pH Precipitation Weighted Average


Legend
• 4.1 Sulfate Ion Concentration (mg/l) at Sample Site
—3.5— Line of Approximately Equal Sulfate Ion Concentration
0.7
0.9
0.7
0.4
0.4
2.6
1.3
1.3
1.4
1.6
1.5
1.3
1.3
1.3
1.0
1.9
1.1
1.4
0.9
0.3
0.6
0.3
1.0
0.9
0.8
0.9
1.0
1.4
1.4
1.6
2.2
0.8
1.5
1.5
1.4
1.2
1.2
2.0
2.5
2.9
1.8
2.0
2.0
2.8
3.5
2.6
1.9
2.2
2.2
3.0
3.7
3.3
4.6
6.0
3.1
2.3
2.7
2.0
3.2
2.5
2.9
3.0
3.0
3.0
3.3
2.8
3.5
3.1
3.0
2.6
3.0
2.0
2.4
3.2
2.8
2.4
2.3
1.8
1.9
2.6
1.4
2.7
2.0
1.8
1.6
1.3
1.7
1.1
1.1
1.4
1.6
1.3
0.7
1.7
2.2
1.2
1.5
2.3
1.6
1.4
1.4
1.8

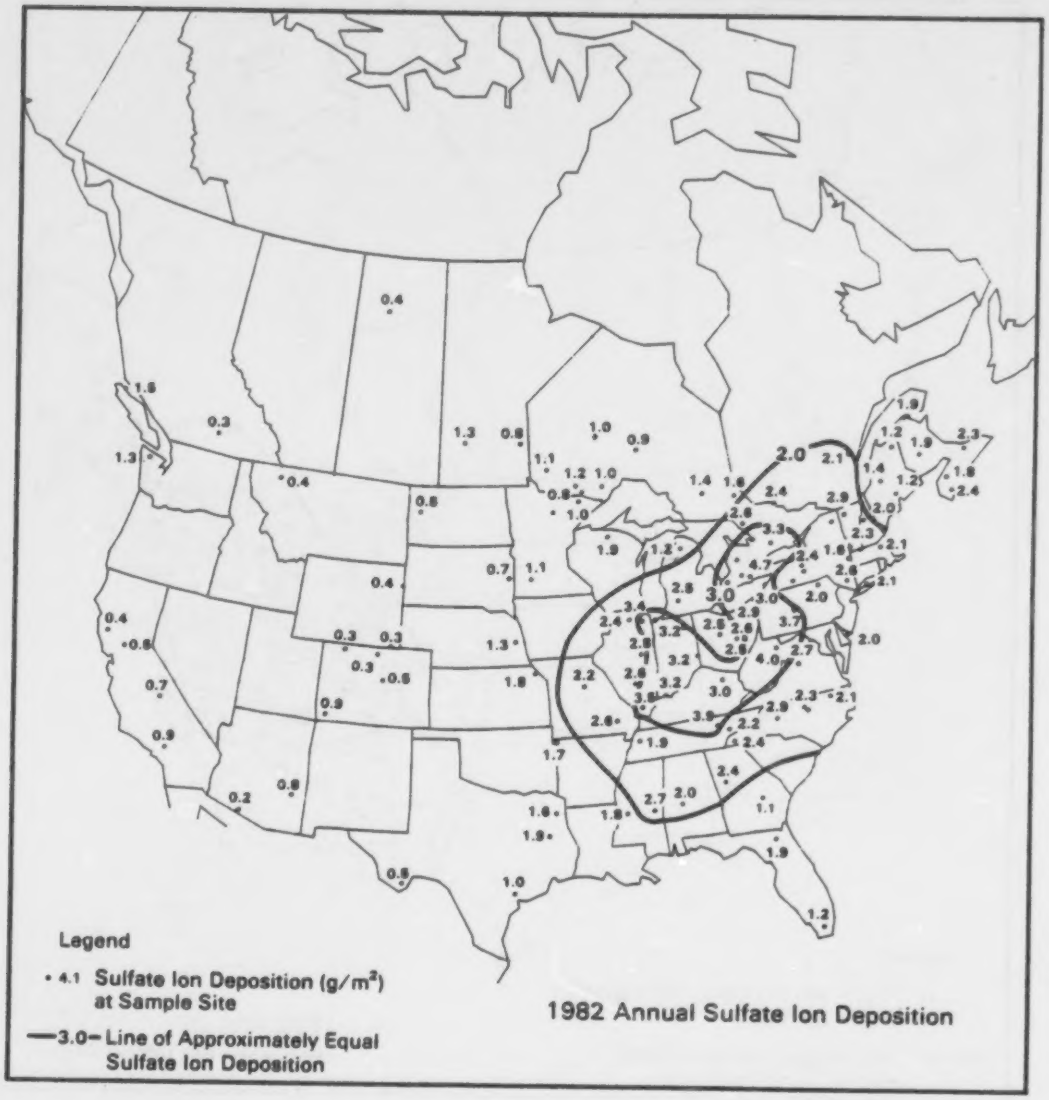
1982 Sulfate Ion Concentration
Precipitation-Weighted Annual Average


Legend
• 2.2 Nitrate Ion Concentration (mg/l) at Sample Site
— 2.0 Line of Approximately Equal Nitrate Ion Concentration
1.0
1.5
2.0

1982 Nitrate Ion Concentration Precipitation-Weighted Annual Average

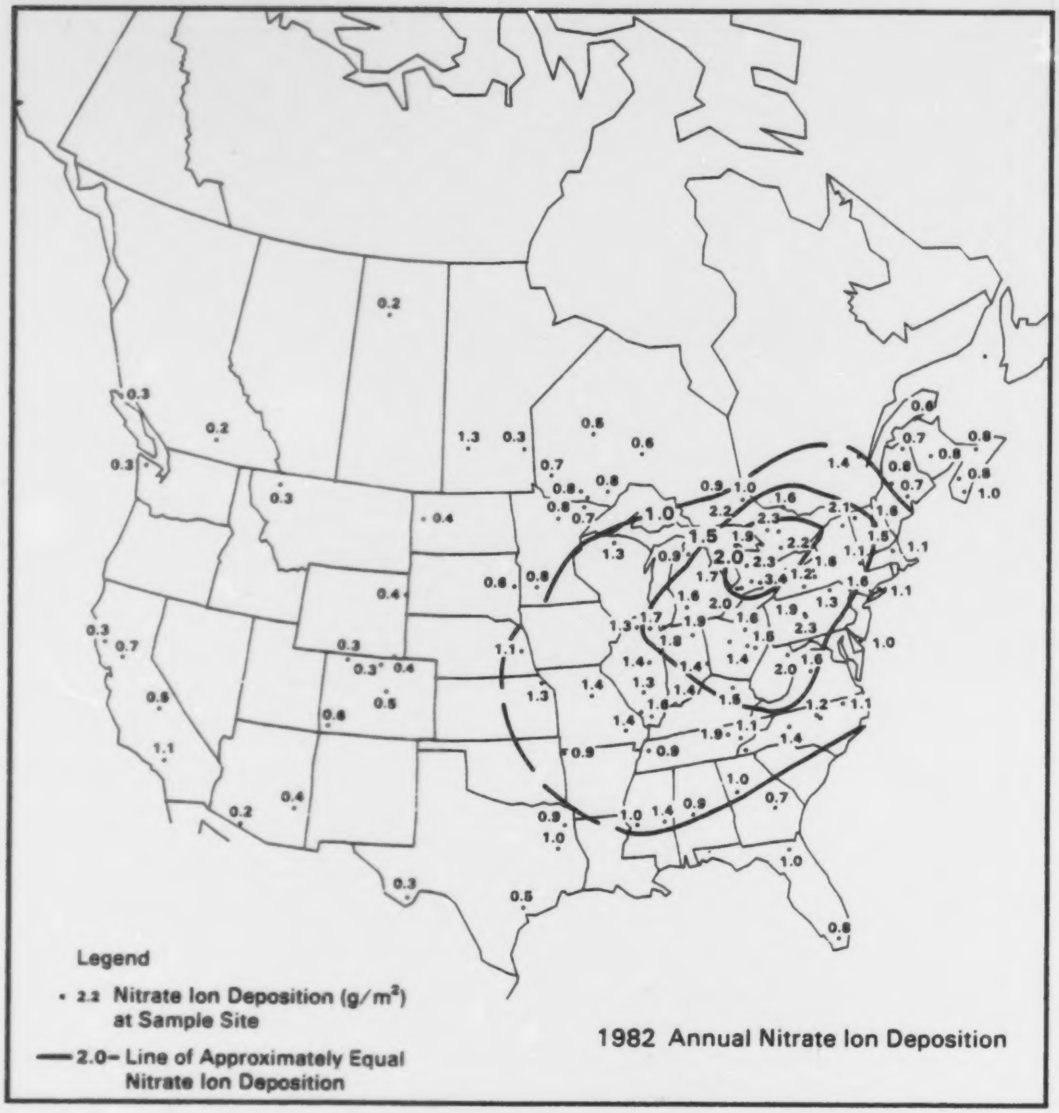

Legend
• 43 Hydrogen Ion Deposition (mg/m²) at Sample Site
—40 Line of Approximately Equal Hydrogen Ion Deposition

1982 Annual
Hydrogen Ion Deposition



1982 Annual Sulfate Ion Deposition

Legend
• 4.1 Sulfate Ion Deposition (g/m²) at Sample Site
—3.0— Line of Approximately Equal Sulfate Ion Deposition
2.0
3.0


Legend
• 2.2 Nitrate Ion Deposition (g/m^2) at Sample Site
—2.0— Line of Approximately Equal Nitrate Ion Deposition
1.0
1.5
2.0

1982 Annual Nitrate Ion Deposition

APPENDIX E

1980, 1981 AND 1982 ANNUAL STATISTICAL SUMMARIES FOR pH, SPECIFIC CONDUCTANCE, HYDROGEN ION AND MAJOR ION SPECIES, BY INDIVIDUAL MONITORING SITE

APPENDIX E

1980, 1981 AND 1982 ANNUAL STATISTICAL SUMMARIES FOR pH, SPECIFIC CONDUCTANCE, HYDROGEN ION AND MAJOR ION SPECIES, BY INDIVIDUAL MONITORING SITE

Annual summaries by individual sites for selected chemical analytes are presented in this appendix. The summaries are ordered by their chemical analytes:

	pH
	specific conductance
H^+	Hydrogen ion (derived from pH)
SO_4^{2-}	Sulfate ion
NO_3^-	Nitrate ion
NH_4^+	Ammonium ion
Ca^{2+}	Calcium ion
Cl^-	Chloride ion
Na^+	Sodium ion
Mg^{2+}	Magnesium ion
K^+	Potassium ion

Within each chemical analyte summary, the wet deposition monitoring sites are organized by state or province. The network for each site is identified.

The annual summaries presented in the tables in this appendix were produced using a general algorithm that 1) contains criteria for deciding when data from a particular sampling period are considered valid and 2) constructs several summary site screening measures that can be used to determine whether sufficient information exists to complete an annual summary for a site. At the current time it is assumed that the data sent to ADS by each network have been subjected to an internal network individual sampling screening process. That process may result in data being declared invalid and either not being reported or being appropriately coded as invalid or suspect. Based on the information associated with each sample provided by the networks, individual samples are declared valid or invalid. Only valid samples are included in the annual summaries. Annual summaries are completed only for sites with "sufficient" valid data. Both the criteria for determining valid samples and the measures of "sufficient" valid data actually used are described below.

VALID SAMPLE CRITERIA

Each sample associated with a sampling period is screened to determine whether the sample meets specific criteria. The screening criteria uses the informational comments and codes provided by each network. All sampling periods for which it is known that no precipitation occurred are considered valid sampling periods. When it is known precipitation occurred, the following additional criteria must be met:

1. The sample must be a wet-only deposition sample.
2. The sample must have been collected according to network protocols. In practice this applies only to NADP sites and corresponds to NADP "SP", sampling protocol problem, coded samples.
3. One or more chemical measurements for the sample must be available. Typically, excluded samples result from insufficient precipitation to complete an analysis or network deletion of sample data because of contamination.
4. Individual ion species concentration must not be accompanied by a comment code designating the measurement to be "suspect" or invalid.
5. The sampling period conditions below must be met.
    - NADP samples must not be "LD" - long-duration samples
    - CANSAP and APIOS monthly samples must include at least 22 days
    - APIOS 28-day samples must include more than 20 days but less than 36.

The basic premise assumed for valid sample screening is that each network has evaluated individual sample results for possible contamination and network protocol compliance. The networks differ substantially in the formalism and level of detail of their procedures. Consequently, it is difficult to achieve comparability across networks.

CRITERIA FOR REPORTING SITE ANNUAL SUMMARY

Four criteria form the basis for the decision to report an annual summary for pH, specific conductance and ion species for a site. In most instances, if the criteria are met for pH at a site, then they are met for the others. Any difference may be due to individual ion species being coded as invalid or due to insufficient precipitation for performance of all planned chemical analyses. The four criteria are listed below.

Criteria	Reporting Criteria
Percent Precipitation Coverage Length	90% or greater
Percent Total Precipitation Associated with Valid Samples	75% or greater
Percent Collection Efficiency	75% to 125%
Percent Valid Sample Length	75% or greater

An annual summary for an ion species at a site must meet all four criteria in order for the summary to be reported.

Percent precipitation coverage length is defined as the percent of the annual period for which valid precipitation coverage (in days) is available. Percent total precipitation associated with valid samples is the ratio of the precipitation depth associated with valid samples to the total precipitation depth measured during valid precipitation coverage. Together, the two criteria measure the coverage of the precipitation monitoring effort during the year. For example, if both criteria are at their lower limit, it is possible that the annual summary could account for less than 75% of the actual annual precipitation at the site. If percent precipitation coverage is 100%, then the criteria assures that at least 75% of the annual precipitation is included in the summaries.

Percent collection efficiency is defined as the ratio of the total sample volume, converted to a depth, to the total precipitation depth for all valid samples where both a sample volume and a standard precipitation depth measurement are available. Individual samples are not declared valid or invalid on the basis of collection efficiency. The overall annual collection efficiency is one measure of the "representativeness" of the sample volume collected and the quality of the site operation.

Percent valid sample length is defined as the percent of the annual period (in days) when valid sampling occurs. It includes all sampling periods when it is known that no precipitation occurs as well as all sampling periods with precipitation and a valid sample.

COLUMN HEADING DEFINITIONS FOR ANNUAL SUMMARY TABLES

Column Number	Column Heading	Definition
1	STATE	The name of the state or province is printed as a primary group heading offset to the left.
2	NETWORK	The network which operates the sites listed below.
3	SITE NAME	The site name used by the network. Appendix A gives other information concerning the site location, operation and history.
4	% PCL	Percent precipitation coverage length. Defined as the percent of the annual period for which information on whether or not precipitation occurred is available. If precipitation occurred during a sampling period, then a quantitative estimate of the amount must be available.
5	% TP	Percent total precipitation. Defined as the percentage of the total estimated precipitation at the site that is associated with valid sampling periods.
6	% COL EFF	Percent collection efficiency. Defined as the ratio of the total sample volume, converted to a depth, to the total precipitation depth for all valid sampling periods where both a sample volume and a standard precipitation depth measurement are available.
7	% VSL	Percent valid sample length. Defined as the percent of the annual period when valid sampling occurred. The calculation is completed in terms of days. Valid sampling here includes sampling periods when precipitation occurred and an acceptable chemical analysis is available.
8-21		All refer only to sampling periods when precipitation occurred and an acceptable chemical analysis is available for the ion species being summarized.
8	N	Number of valid samples available for statistical summary.
9	N BDL	Number below detection limit. Number of values in statistical summary that are reported as being below the detection limit. For percentile summary, the actual detection limit reported is used. For mean and standard deviation calculations, one-half of the actual detection limit reported is used.
10	WTD MEAN	Precipitation weighted mean. Weighted mean of valid data values is calculated using precipitation depth as weight. Precipitation depth is defined as the standard precipitation measurement if available; otherwise sample volume converted to a depth is used. For pH, the calculation is completed in terms of hydrogen ion and then converted to pH units.
11	GEOMETRIC MEAN	Geometric mean. Obtained by calculating arithmetic average of the natural logarithms of the valid data values and then exponentiating the result.
12	GEOMETRIC SD	Standard deviation of the natural logarithms of the valid data values.
13	ARITHMETIC MEAN	Arithmetic mean of the valid data values.
14	ARITHMETIC SD	Standard deviation of the valid data values.
15	MIN	Minimum valid data value.

Column Number	Column Heading	Definition
16	10%	Tenth percentile of the valid data values.
17	25%	Twenty-fifth percentile of the valid data values.
18	50%	Median or fiftieth percentile of the valid data values.
19	75%	Seventh-fifth percentile of the valid data values.
20	90%	Ninetieth percentile of the valid data values.
21	MAX	Maximum valid data value.
22	TOTAL PRECIP	Total precipitation measured at the site during precipitation coverage period (%PCL).
23	DEP	Total estimated deposition at the site. Obtained by multiplying precipitation weighted mean (WTD MEAN) by total precipitation, converted to appropriate units.

1980 ANNUAL STATISTICAL SUMMARIES FOR pH, SPECIFIC CONDUCTANCE, HYDROGEN ION, MAJOR ION SPECIES, BY INDIVIDUAL MONITORING SITE

pH

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Wtd. Mean	Geometric		Arithmetic		Percentiles							Total Precip cm
							Mean	SD	Mean	SD	Min	10%	25%	50%	75%	90%	Max	
Delaware																		
MAP3s/PCN																		
Lewes	100	99	87	96	60	4.3	4.3	0.08	4.3	0.4	3.65	3.95	4.07	4.26	4.59	4.80	5.43	91.6
EPRI-SURE																		
Indian River	100	100	98	100	46	4.2	4.3	0.09	4.3	0.4	3.60	3.84	3.97	4.20	4.57	4.97	5.25	56.8
Illinois																		
NADP																		
Dixon Springs	93	100	91	77	40	4.3	4.4	0.14	4.4	0.7	3.58	3.84	4.08	4.28	4.50	5.10	7.36	84.6
Indiana																		
EPRI-SURE																		
Fort Wayne	100	99	91	96	98	4.2	4.5	0.15	4.5	0.8	3.61	3.90	4.09	4.30	4.66	5.85	7.09	88.0
Rockport	100	100	93	100	77	4.1	4.2	0.08	4.2	0.3	3.22	3.89	3.99	4.15	4.32	4.44	5.83	92.5
New Hampshire																		
NADP																		
Hubbard Brook	90	99	99	87	44	4.3	4.3	0.09	4.3	0.4	3.73	3.85	4.11	4.31	4.48	4.88	6.19	86.8
New York																		
NADP																		
Aurora	90	100	93	87	45	4.1	4.2	0.08	4.2	0.4	3.65	3.82	3.94	4.03	4.35	4.65	5.19	79.6
Knobit	90	89	96	77	40	4.2	4.3	0.10	4.3	0.4	3.59	3.85	3.97	4.28	4.53	5.09	5.51	64.8
MAP3s/PCN																		
Brookhaven	100	98	90	97	54	4.3	4.3	0.11	4.4	0.5	3.61	3.89	4.02	4.26	4.58	4.87	6.60	81.1
Ithaca	100	96	95	97	68	4.2	4.2	0.08	4.2	0.4	3.46	3.89	4.01	4.16	4.33	4.61	5.62	94.9
Whiteface	100	97	113	96	78	4.2	4.3	0.07	4.3	0.3	3.70	3.95	4.09	4.22	4.49	4.72	5.98	83.9
North Carolina																		
NADP																		
Clinton Station	98	100	89	94	48	4.5	4.5	0.10	4.6	0.5	3.79	4.05	4.26	4.47	4.76	5.20	5.78	116.5
Coweeta	94	99	93	90	46	4.5	4.5	0.11	4.5	0.5	3.64	3.95	4.21	4.45	4.72	5.08	6.38	157.5
Lewiston	94	100	81	92	48	4.4	4.6	0.13	4.6	0.7	3.82	4.00	4.26	4.43	4.82	5.41	7.05	87.3
Piedmont Station	96	99	94	88	46	4.3	4.5	0.16	4.5	0.8	3.26	3.80	4.04	4.39	4.72	5.86	7.47	99.9
EPRI-SURE																		
Raleigh	100	95	87	96	70	4.3	4.3	0.10	4.3	0.5	3.35	3.85	3.99	4.21	4.48	4.69	6.84	94.1
Ohio																		
NADP																		
Caldwell	94	97	103	90	46	4.1	4.2	0.09	4.2	0.4	3.42	3.79	3.98	4.14	4.29	4.48	6.53	97.4
Delaware	96	100	93	92	48	4.1	4.2	0.09	4.3	0.4	3.69	3.84	4.03	4.17	4.38	4.66	6.22	108.6
Wooster	96	97	95	92	47	4.2	4.3	0.08	4.3	0.3	3.55	3.94	4.07	4.25	4.39	4.62	5.59	90.6
MAP3s/PCN																		
Oxford	100	88	84	90	59	4.2	4.3	0.09	4.3	0.4	3.86	3.97	4.07	4.22	4.40	4.70	5.80	93.4
EPRI-SURE																		
Zanesville	100	100	88	100	100	4.1	4.2	0.10	4.2	0.5	3.32	3.79	3.96	4.16	4.27	4.51	6.66	133.2
Pennsylvania																		
NADP																		
Leading Ridge	92	100	92	92	48	4.1	4.2	0.09	4.2	0.4	3.66	3.76	3.88	4.09	4.41	4.67	5.25	92.5
MAP3s/PCN																		
Penn State	100	100	122	98	74	4.1	4.2	0.10	4.2	0.4	3.34	3.78	3.93	4.11	4.39	4.66	6.01	74.8
EPRI-SURE																		
Scranton	100	100	99	100	81	4.1	4.0	0.07	4.0	0.3	3.49	3.70	3.82	4.01	4.17	4.49	4.90	64.2
South Carolina																		
NADP																		
Clemson	90	100	99	87	44	4.4	4.4	0.11	4.5	0.6	3.19	4.03	4.21	4.34	4.63	4.74	7.11	123.3

1980 Annual Summary

pH

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Wtd. Mean	Geometric		Arithmetic		Percentiles							Total Precip cm
							Mean	SD	Mean	SD	Min	10%	25%	50%	75%	90%	Max	
Tennessee																		
EPRI-SURE																		
Giles County	100	100	89	100	44	4.5	4.4	0.09	4.4	0.4	3.86	3.99	4.11	4.41	4.59	4.82	6.32	89.0
Virginia																		
MAP3s/PCN																		
Virginia	99	80	94	92	54	4.3	4.2	0.07	4.2	0.3	3.51	3.79	4.01	4.20	4.43	4.68	4.85	84.5
West Virginia																		
NADP																		
Parsons	96	100	92	96	50	4.2	4.2	0.07	4.2	0.3	3.49	3.89	4.01	4.20	4.37	4.53	5.01	122.3
EPRI-SURE																		
Lewisburg	100	100	96	100	82	4.3	4.3	0.10	4.4	0.5	3.63	3.89	4.06	4.29	4.54	4.91	6.52	74.2
Alberta																		
CANSAP																		
Edson	96	98	77	92	11	5.1	5.8	0.14	5.8	0.8	4.80	4.80	5.10	5.60	6.80	6.90	6.90	73.7
Rocky Mtn House	100	100	82	100	12	5.8	6.1	0.08	6.1	0.5	5.20	5.26	5.85	6.15	6.40	6.95	7.10	61.8
British Columbia																		
CANSAP																		
Fort St. John	100	99	77	92	11	5.2	5.7	0.12	5.8	0.7	4.70	4.72	5.40	5.80	6.10	7.12	7.30	49.1
Kelowna	100	100	76	100	12	4.9	5.4	0.12	5.5	0.6	4.40	4.49	4.85	5.70	6.00	6.14	6.20	39.3
Port Hardy	100	100	86	100	12	5.0	5.1	0.10	5.1	0.6	4.60	4.66	4.80	5.00	5.15	6.45	6.90	180.7
Revelstoke	100	100	88	100	12	5.4	5.5	0.05	5.5	0.3	5.00	5.03	5.13	5.60	5.70	5.84	5.90	108.2
Terrace	100	100	79	100	12	5.1	5.1	0.07	5.1	0.3	4.50	4.50	5.00	5.20	5.38	5.54	5.60	136.8
Manitoba																		
CANSAP																		
Bissett	100	100	76	100	12	5.2	5.3	0.13	5.3	0.7	4.40	4.46	4.75	5.20	6.05	6.44	6.50	54.2
New Brunswick																		
CANSAP																		
Acadia Fes	100	100	88	100	12	4.4	4.4	0.05	4.4	0.2	4.00	4.03	4.22	4.45	4.57	4.74	4.80	126.4
St. John	100	100	83	100	12	4.4	4.8	0.17	4.9	0.9	4.00	4.03	4.15	4.55	5.63	6.66	6.90	125.1
Newfoundland																		
CANSAP																		
Goose	92	100	79	92	11	4.9	4.9	0.07	4.9	0.3	4.30	4.36	4.70	5.00	5.20	5.28	5.30	103.9
Nova Scotia																		
CANSAP																		
Kejimkujik	91	100	101	91	11	4.5	4.4	0.07	4.4	0.3	4.00	4.02	4.20	4.40	4.60	5.04	5.10	105.2
Shelburne	92	100	86	92	11	4.4	4.3	0.08	4.3	0.3	3.70	3.74	4.00	4.40	4.60	4.60	4.60	116.2
APN																		
Kejimkujik	100	77	102	94	73	4.4	4.5	0.09	4.5	0.4	3.60	3.94	4.25	4.50	4.80	5.10	5.60	117.0
Ontario																		
CANSAP																		
ELA	99	100	81	99	12	5.0	5.1	0.09	5.1	0.5	4.40	4.43	4.72	5.05	5.40	5.96	6.20	50.9
Harrow	96	100	79	96	12	4.4	5.0	0.21	5.1	1.1	3.90	3.93	4.40	4.55	6.32	7.02	7.20	97.3
Kingston	92	100	79	92	11	4.2	4.4	0.09	4.4	0.4	4.00	4.02	4.10	4.30	4.50	5.18	5.20	89.7
Mount Forest	92	100	75	92	11	4.9	5.2	0.12	5.2	0.6	4.40	4.42	4.70	5.10	5.70	6.28	6.30	91.9
Simcoe	91	100	90	91	11	4.1	4.3	0.10	4.3	0.5	3.90	3.92	4.10	4.10	4.30	5.44	5.70	80.1
APN																		
Algoma	100	99	83	99	35	4.7	5.5	0.16	5.5	0.9	3.80	4.30	4.80	5.60	6.20	6.64	6.80	35.2
Chalk River	100	98	94	95	133	4.3	4.5	0.12	4.5	0.6	3.50	4.00	4.20	4.40	4.70	5.06	6.90	95.5
ELA	100	93	87	95	83	4.9	5.1	0.15	5.1	0.8	3.40	4.20	4.50	5.00	5.40	6.50	7.40	51.7
Long Point	100	98	95	95	94	4.1	4.3	0.12	4.3	0.6	3.80	3.90	4.00	4.10	4.40	4.85	7.30	86.5

pH

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Wtd. Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	Percentiles 10%	Percentiles 25%	Percentiles 50%	Percentiles 75%	Percentiles 90%	Percentiles Max	Total Precip cm
Quebec																		
CANSAP																		
Quebec City	100	100	77	100	12	4.2	4.6	0.18	4.6	1.0	4.00	4.03	4.13	4.20	4.55	6.87	7.20	118.4
St. Hubert	92	100	77	92	11	4.3	4.5	0.12	4.5	0.6	4.10	4.10	4.30	4.40	4.60	5.96	6.30	95.0

1980 Annual Summary

Specific Conductance

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Min	10%	25%	50%	75%	90%	Max	Total Precip cm
					Units: umho/cm					Percentiles							
Delaware																	
MAP3s/PCN																	
Lewes	100	99	87	96	60	28.4	0.79	35.2	20.3	0.7	13.1	19.3	31.5	48.0	63.8	99.0	91.6
EPRI-SURE																	
Indian River	100	100	98	100	46	31.4	0.66	38.6	27.2	6.0	12.0	21.3	33.4	48.2	65.1	168.0	56.8
Illinois																	
NADP																	
Dixon Springs	93	100	91	75	39	33.8	0.66	42.8	35.8	11.1	14.7	20.1	32.2	48.3	93.6	187.2	84.6
Indiana																	
EPRI-SURE																	
Fort Wayne	100	99	91	96	98	29.4	0.58	34.4	20.1	6.8	12.9	20.9	31.4	42.6	55.3	115.0	88.0
Rockport	100	100	93	100	77	32.1	0.54	37.7	29.5	9.6	15.9	21.9	32.2	47.2	60.2	249.0	92.5
New Hampshire																	
NADP																	
Hubbard Brook	90	99	99	85	43	26.0	0.61	31.0	19.4	5.3	11.6	20.4	27.5	36.3	59.9	104.1	86.8
New York																	
NADP																	
Aurora	90	100	93	87	45	39.6	0.63	46.7	25.6	6.4	15.8	28.4	45.6	59.7	75.6	134.6	79.6
Knobit	90	89	96	77	40	30.8	0.74	39.1	27.3	4.6	13.8	19.4	31.6	58.0	72.9	133.4	64.8
MAP3s/PCN																	
Brookhaven	100	99	91	97	56	31.1	0.73	39.3	28.5	2.3	11.7	19.5	30.0	54.5	68.8	170.0	81.1
Ithaca	100	98	94	98	71	31.0	0.73	40.8	41.9	2.6	12.2	22.0	32.0	45.0	63.8	312.0	94.9
Whiteface	100	98	113	96	78	27.3	0.60	32.4	20.6	7.0	11.9	18.0	29.0	37.5	53.5	125.0	83.9
North Carolina																	
NADP																	
Clinton Station	98	100	89	92	47	21.8	0.69	27.7	21.7	4.3	8.1	13.2	22.2	32.8	52.7	112.3	116.5
Coweeta	94	99	93	88	45	19.8	0.63	24.6	19.6	7.1	9.1	12.0	18.7	29.9	50.2	115.8	157.5
Lewiston	94	95	86	88	46	27.0	0.75	35.1	27.8	3.4	10.1	15.5	28.1	48.0	59.1	143.9	87.3
Piedmont Station	96	99	94	81	42	33.9	0.67	43.1	36.7	9.7	16.2	20.5	29.0	57.2	81.2	216.5	99.9
EPRI-SURE																	
Raleigh	100	95	87	96	70	26.9	0.65	33.5	26.9	6.1	12.4	16.8	27.8	41.1	56.1	192.0	94.1
Ohio																	
NADP																	
Caldwell	94	97	103	90	46	40.2	0.52	46.3	29.4	10.5	22.5	27.4	42.6	54.1	72.8	190.7	97.4
Delaware	96	100	93	90	47	34.9	0.49	39.3	22.7	8.2	18.6	27.6	37.4	46.8	60.1	158.0	108.6
Wooster	96	97	95	90	46	33.7	0.42	36.6	14.8	9.4	19.8	25.7	35.4	44.9	56.1	84.2	90.6
MAP3s/PCN																	
Oxford	100	87	84	89	54	32.1	0.45	35.4	15.4	12.0	17.5	22.8	33.0	45.0	61.0	70.0	93.4
EPRI-SURE																	
Zanesville	100	100	88	100	100	35.3	0.55	40.8	24.9	5.4	20.2	26.6	34.0	50.9	70.3	199.0	133.2
Pennsylvania																	
NADP																	
Leading Ridge	92	100	92	90	47	37.4	0.65	44.8	26.4	7.0	15.5	24.6	41.0	63.2	77.4	143.9	92.5
MAP3s/PCN																	
Penn State	100	100	122	98	72	36.6	0.74	46.4	34.6	2.9	14.3	23.0	41.0	59.0	78.7	240.0	74.8
EPRI-SURE																	
Scranton	100	100	99	100	81	38.6	0.63	45.8	25.7	4.9	15.8	29.8	38.9	57.5	85.4	140.0	64.2
South Carolina																	
NADP																	
Clemson	90	100	99	83	42	24.5	0.69	33.9	49.4	4.7	11.3	15.1	25.5	37.8	48.5	333.5	123.3

Specific Conductance

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Min	10%	25%	50%	75%	90%	Max	Total Precip cm
						Units: umho/cm				Percentiles							
Tennessee																	
EPRI-SURE																	
Giles County	100	100	89	100	44	22.4	0.59	26.5	16.4	8.1	10.9	13.9	20.9	35.3	57.4	70.6	89.0
Virginia																	
MAP3s/PCN																	
Virginia	99	83	93	92	54	32.0	0.68	39.7	28.4	7.9	12.5	20.0	33.0	51.5	70.0	150.0	84.5
West Virginia																	
NADP																	
Parsons	96	100	92	96	50	35.4	0.52	40.6	23.4	13.1	16.0	24.2	34.8	50.7	63.0	134.6	122.3
EPRI-SURE																	
Lewisburg	100	100	96	100	82	24.0	0.66	29.4	19.1	4.2	9.7	14.3	25.4	39.5	52.4	101.0	74.2
Alberta																	
CANSAP																	
Edson	96	98	77	92	11	11.2	0.61	13.6	10.8	4.7	5.1	6.7	10.0	15.0	38.6	43.8	73.7
Rocky Mtn House	100	97	85	91	11	15.9	0.61	19.3	14.6	9.1	9.1	9.6	12.0	24.1	48.5	49.1	61.8
British Columbia																	
CANSAP																	
Port St. John	100	99	77	92	11	16.0	0.77	20.6	14.5	4.9	5.1	9.8	15.0	33.8	42.8	43.0	49.1
Kelowna	100	100	76	100	12	9.0	0.54	10.3	5.5	4.0	4.2	5.7	8.2	16.3	19.1	20.0	39.3
Port Hardy	100	100	86	100	12	16.2	0.63	19.3	12.1	6.5	6.5	9.6	16.3	27.7	42.6	47.0	180.7
Revelstoke	100	100	88	100	12	7.0	0.29	7.2	1.9	4.1	4.3	5.3	7.6	8.8	9.7	10.0	108.2
Terrace	100	99	80	92	11	6.6	0.56	7.6	4.6	2.9	3.0	4.2	6.0	10.7	16.9	18.0	136.8
Manitoba																	
CANSAP																	
Bissett	100	96	77	92	11	8.8	0.65	10.9	8.6	4.0	4.1	4.9	8.2	11.4	30.1	32.0	54.2
New Brunswick																	
CANSAP																	
Acadia Fes	100	97	89	92	11	24.3	0.37	26.0	10.8	15.4	16.0	19.0	21.0	35.0	47.6	49.5	126.4
St. John	100	100	83	100	12	29.0	0.46	31.8	14.1	13.9	14.0	23.3	27.1	41.8	57.2	62.4	125.1
Newfoundland																	
CANSAP																	
Goose	92	100	79	92	11	10.6	0.58	12.6	8.6	5.9	5.9	6.2	9.0	15.0	29.8	30.4	103.9
Nova Scotia																	
CANSAP																	
Kejimkujik	91	100	101	91	11	23.8	0.43	25.7	10.0	9.5	10.9	19.0	24.7	34.0	41.5	41.6	105.2
Shelburne	92	100	86	92	11	37.1	0.49	41.6	22.3	21.0	21.4	24.0	30.2	53.0	86.6	92.0	116.2
Ontario																	
CANSAP																	
ELA	99	89	81	91	11	10.1	0.55	11.5	5.9	3.8	4.1	6.9	9.7	17.8	21.5	22.2	50.9
Harrow	96	100	79	96	12	37.1	0.38	40.0	18.6	24.0	24.3	27.7	35.5	46.5	80.3	89.9	97.3
Kingston	92	100	79	92	11	38.2	0.28	39.6	11.5	25.6	25.9	32.2	38.2	45.8	59.8	60.0	89.7
Mount Forest	92	100	75	92	11	27.3	0.33	28.7	10.3	16.0	16.6	19.8	29.0	30.0	50.7	55.0	91.9
Simcoe	91	100	90	91	11	34.9	0.69	40.1	15.3	4.8	9.8	32.3	40.2	51.0	62.7	65.0	80.1
APN																	
Algoma	100	89	84	97	28	16.7	0.68	21.3	18.3	5.4	7.7	9.5	17.0	27.0	46.4	93.0	35.2
Chalk River	100	92	94	86	97	27.2	0.57	31.8	19.1	5.7	13.4	18.3	28.0	39.4	55.7	105.0	95.5
ELA	100	84	88	87	56	11.1	0.70	14.2	12.2	2.7	4.3	7.2	11.0	17.8	27.2	69.0	51.7
Quebec																	
CANSAP																	
Quebec City	100	93	80	91	11	37.4	0.26	38.6	10.7	28.0	28.4	30.0	36.8	44.0	60.3	63.1	118.4
St. Hubert	92	100	77	92	11	37.4	0.34	39.9	18.5	25.0	25.9	31.6	33.6	42.0	83.2	93.0	95.0

H+ (derived from pH)

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Concentration Geometric Mean mg/l	Concentration Geometric SD	Concentration Arithmetic Mean mg/l	Concentration Arithmetic SD mg/l	Percentiles mg/l Min	Percentiles mg/l 10%	Percentiles mg/l 25%	Percentiles mg/l 50%	Percentiles mg/l 75%	Percentiles mg/l 90%	Percentiles mg/l Max	Total Precip cm	H+ Dep mg/m2
Delaware																				
MAP3s/PCN																				
Lewes	100	99	87	96	60		.050	.047	0.83	.062	.045	.004	.016	.026	.055	.085	.112	.224	91.6	46.
EPRI-SURE																				
Indian River	100	100	98	100	46		.057	.051	0.92	.072	.054	.006	.011	.027	.063	.107	.144	.251	56.8	32.
Illinois																				
NADP																				
Dixon Springs	93	100	91	77	40		.056	.038	1.64	.065	.055	.000	.009	.031	.052	.083	.146	.263	84.6	48.
Indiana																				
EPRI-SURE																				
Fort Wayne	100	99	91	96	98		.062	.029	1.80	.059	.049	.000	.001	.022	.050	.081	.126	.245	88.0	55.
Rockport	100	100	93	100	77		.072	.066	0.78	.083	.072	.001	.036	.048	.071	.104	.129	.603	92.5	67.
New Hampshire																				
NADP																				
Hubbard Brook	90	99	99	87	44		.055	.045	1.02	.063	.045	.001	.014	.033	.050	.079	.143	.186	86.8	47.
New York																				
NADP																				
Aurora	90	100	93	87	45		.078	.069	0.81	.087	.051	.006	.023	.045	.093	.115	.152	.224	79.6	62.
Knobit	90	89	96	77	40		.060	.047	1.02	.070	.058	.003	.008	.029	.052	.108	.140	.257	64.8	39.
MAP3s/PCN																				
Brookhaven	100	98	90	97	54		.047	.043	1.22	.066	.053	.000	.013	.027	.054	.095	.129	.245	81.1	38.
Ithaca	100	96	95	97	68		.065	.061	0.81	.078	.057	.002	.025	.047	.070	.097	.130	.347	94.9	62.
Whiteface	100	97	113	96	78		.061	.051	0.78	.064	.041	.001	.019	.033	.060	.081	.113	.200	83.9	51.
North Carolina																				
NADP																				
Clinton Station	98	100	89	94	48		.031	.027	1.05	.041	.034	.002	.006	.017	.034	.055	.088	.162	116.5	36.
Coweeta	94	99	93	90	46		.033	.029	1.26	.047	.045	.000	.008	.019	.035	.062	.114	.229	157.5	52.
Lewiston	94	100	81	92	48		.036	.023	1.59	.041	.034	.000	.004	.015	.037	.055	.100	.151	87.3	31.
Piedmont Station	96	99	94	88	46		.051	.029	1.85	.069	.091	.000	.001	.019	.041	.092	.158	.550	99.9	51.
EPRI-SURE																				
Raleigh	100	95	87	96	70		.053	.053	1.04	.075	.065	.000	.020	.033	.062	.102	.140	.447	94.1	50.
Ohio																				
NADP																				
Caldwell	94	97	103	90	46		.086	.065	0.98	.085	.059	.000	.033	.051	.072	.104	.162	.380	97.4	83.
Delaware	96	100	93	92	48		.078	.055	0.98	.072	.044	.001	.022	.041	.068	.093	.146	.204	108.6	85.
Wooster	96	97	95	92	47		.069	.053	0.79	.067	.045	.003	.026	.041	.056	.085	.115	.282	90.6	63.
MAP3s/PCN																				
Oxford	100	88	84	90	59		.066	.049	0.94	.063	.033	.002	.020	.040	.060	.085	.107	.138	93.4	62.
EPRI-SURE																				
Zanesville	100	100	88	100	100		.082	.065	1.05	.089	.066	.000	.031	.054	.070	.110	.162	.479	133.2	109.
Pennsylvania																				
NADP																				
Leading Ridge	92	100	92	92	48		.073	.067	0.85	.088	.058	.006	.021	.039	.082	.131	.172	.219	92.5	68.
MAP3s/PCN																				
Penn State	100	100	122	98	74		.076	.066	0.98	.091	.070	.001	.022	.041	.079	.119	.168	.457	74.8	57.
EPRI-SURE																				
Scranton	100	100	99	100	81		.075	.091	0.67	.109	.061	.013	.032	.068	.098	.153	.200	.324	64.2	48.
South Carolina																				
NADP																				
Clemson	90	100	99	87	44		.037	.035	1.31	.059	.094	.000	.018	.024	.046	.062	.094	.646	123.3	46.

H+ (derived from pH)

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	H+ Dep mg/m2
Tennessee																				
EPRI-SURE																				
Giles County	100	100	89	100	44		.034	.038	0.95	.051	.034	.000	.015	.026	.039	.077	.102	.138	89.0	31.
Virginia																				
MAP3s/PCN																				
Virginia	99	80	94	92	54		.055	.059	0.71	.076	.059	.014	.021	.038	.064	.098	.162	.309	84.5	47.
West Virginia																				
NADP																				
Parsons	96	100	92	96	50		.069	.063	0.66	.077	.056	.010	.030	.042	.063	.099	.128	.324	122.3	84.
EPRI-SURE																				
Lewisburg	100	100	96	100	82		.055	.042	1.13	.064	.050	.000	.012	.029	.052	.088	.128	.234	74.2	41.
Alberta																				
CANSAP																				
Edson	96	98	77	92	11		.008	.002	1.89	.005	.006	.000	.000	.000	.003	.008	.016	.016	73.7	6.
Rocky Mtn House	100	100	82	100	12		.002	.001	1.17	.001	.002	.000	.000	.000	.001	.001	.006	.006	61.8	1.
British Columbia																				
CANSAP																				
Fort St. John	100	99	77	92	11		.007	.002	1.67	.005	.007	.000	.000	.001	.002	.004	.019	.020	49.1	3.
Kelowna	100	100	76	100	12		.011	.003	1.44	.009	.012	.001	.001	.001	.002	.014	.034	.040	39.3	4.
Port Hardy	100	100	86	100	12		.010	.008	1.38	.011	.007	.000	.001	.007	.010	.016	.022	.025	180.7	18.
Revelstoke	100	100	88	100	12		.004	.003	0.68	.004	.003	.001	.001	.002	.003	.008	.009	.010	108.2	4.
Terrace	100	100	79	100	12		.008	.007	0.77	.010	.010	.003	.003	.004	.006	.010	.032	.032	136.8	11.
Manitoba																				
CANSAP																				
Bissett	100	100	76	100	12		.007	.005	1.60	.011	.012	.000	.000	.001	.006	.018	.035	.040	54.2	4.
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	88	100	12		.045	.040	0.53	.045	.025	.016	.019	.027	.036	.060	.094	.100	126.4	56.
St. John	100	100	83	100	12		.039	.013	2.10	.036	.034	.000	.000	.003	.028	.072	.094	.100	125.1	49.
Newfoundland																				
CANSAP																				
Goose	92	100	79	92	11		.012	.012	0.72	.016	.013	.005	.005	.006	.010	.020	.045	.050	103.9	13.
Nova Scotia																				
CANSAP																				
Kejimkujik	91	100	101	91	11		.032	.036	0.75	.045	.028	.008	.010	.025	.040	.063	.096	.100	105.2	34.
Shelburne	92	100	86	92	11		.044	.049	0.72	.064	.056	.025	.025	.025	.040	.100	.185	.200	116.2	51.
APN																				
Kejimkujik	100	77	102	94	73		.036	.032	0.96	.049	.051	.003	.008	.016	.032	.057	.116	.251	117.0	42.
Ontario																				
CANSAP																				
ELA	99	100	81	99	12		.010	.008	1.14	.013	.012	.001	.002	.004	.009	.019	.037	.040	50.9	5.
Harrow	96	100	79	96	12		.045	.008	2.57	.034	.040	.000	.000	.001	.028	.040	.118	.126	97.3	43.
Kingston	92	100	79	92	11		.058	.041	0.92	.053	.029	.006	.007	.032	.050	.079	.096	.100	89.7	52.
Mount Forest	92	100	75	92	11		.012	.006	1.47	.013	.013	.001	.001	.002	.008	.020	.038	.040	91.9	11.
Simcoe	91	100	90	91	11		.074	.052	1.13	.069	.032	.002	.010	.050	.079	.079	.121	.126	80.1	59.
APN																				
Algoma	100	99	83	99	35		.018	.003	1.96	.015	.031	.000	.000	.001	.003	.016	.050	.158	35.2	6.
Chalk River	100	98	94	95	133		.046	.032	1.30	.053	.049	.000	.009	.020	.040	.063	.100	.316	95.5	44.
ELA	100	93	87	95	83		.013	.008	1.84	.024	.047	.000	.000	.004	.010	.032	.063	.398	51.7	7.
Long Point	100	98	95	95	94		.073	.051	1.36	.075	.043	.000	.014	.040	.079	.100	.126	.158	86.5	63.

H+ (derived from pH)

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	H+ Dep mg/m2
Quebec																				
CANSAP																				
Quebec City	100	100	77	100	12		.058	.023	2.26	.052	.031	.000	.000	.029	.063	.075	.094	.100	118.4	68.
St. Hubert	92	100	77	92	11		.051	.030	1.40	.044	.023	.001	.005	.025	.040	.050	.079	.079	95.0	49.

Sulfate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/1	Geometric Mean mg/1	Geometric SD	Arithmetic Mean mg/1	Arithmetic SD mg/1	Min	10%	25%	Percentiles mg/1 50%	75%	90%	Max	Total Precip cm	SO4 Dep g/m2
Delaware																				
MAP3s/PCN																				
Lewes	100	99	87	97	62		2.62	2.43	0.74	3.11	2.26	0.31	0.91	1.44	2.83	3.96	5.95	11.52	91.6	2.40
EPRI-SURE																				
Indian River	100	99	98	98	41		2.58	2.52	0.75	3.16	1.93	0.28	0.93	1.59	3.02	4.72	5.79	8.18	56.8	1.47
Indiana																				
EPRI-SURE																				
Fort Wayne	100	97	92	93	90		2.95	2.87	0.63	3.46	2.22	0.33	1.45	1.76	3.04	4.66	6.21	12.92	88.0	2.59
Rockport	100	100	94	99	76		2.82	3.00	0.64	3.79	3.78	0.42	1.47	2.02	2.88	4.30	6.96	31.52	92.5	2.60
New Hampshire																				
NADP																				
Hubbard Brook	90	99	99	85	43		2.46	2.15	0.77	2.80	1.99	0.40	0.65	1.28	2.24	3.69	5.94	9.36	86.8	2.14
New York																				
NADP																				
Aurora	90	100	93	85	44		3.91	3.92	0.61	4.56	2.36	0.74	1.67	2.77	4.44	5.70	7.95	12.56	79.6	3.11
Knobit	90	89	96	77	40		2.91	2.85	0.87	3.92	3.05	0.31	0.89	1.64	3.14	5.92	8.83	13.05	64.8	1.88
MAP3s/PCN																				
Brookhaven	100	99	91	98	57		2.51	2.74	0.72	3.59	3.06	0.68	1.06	1.63	2.78	4.46	7.64	16.32	81.1	2.03
Ithaca	100	98	94	98	74		2.64	2.34	0.97	3.44	3.42	0.07	0.60	1.61	2.59	4.06	7.73	23.04	94.9	2.50
Whiteface	100	98	113	97	81		2.67	2.27	0.77	3.01	2.39	0.26	0.81	1.30	2.50	3.89	6.57	11.52	83.9	2.24
North Carolina																				
NADP																				
Clinton Station	98	100	89	88	45		1.85	2.15	0.76	2.78	2.21	0.18	0.97	1.50	2.11	3.61	5.19	12.17	116.5	2.15
Coweeta	94	99	93	87	44		1.74	2.08	0.62	2.58	2.16	0.75	0.99	1.24	1.82	3.17	4.98	13.50	157.5	2.74
Lewiston	94	95	86	85	44		2.25	2.63	0.89	3.93	4.93	0.19	0.94	1.42	2.74	4.88	6.36	31.06	87.3	1.96
Piedmont Station	96	99	94	81	42		3.02	3.72	0.73	4.92	4.43	1.00	1.42	2.15	3.67	5.52	10.54	25.86	99.9	3.02
EPRI-SURE																				
Raleigh	100	95	87	96	68		1.88	2.13	0.71	2.77	2.55	0.47	0.74	1.38	2.11	3.31	4.79	16.89	94.1	1.77
Ohio																				
NADP																				
Caldwell	94	97	103	88	45		4.14	3.76	0.75	4.88	4.12	0.36	1.51	2.53	3.74	6.16	9.94	25.39	97.4	4.04
Delaware	96	100	93	88	46		3.98	3.54	0.62	4.15	2.70	0.22	1.95	2.72	3.74	4.89	6.37	19.01	108.6	4.32
Wooster	96	97	95	87	44		3.64	3.61	0.52	4.08	2.04	1.05	2.03	2.37	3.92	5.26	6.65	10.53	90.6	3.30
MAP3s/PCN																				
Oxford	100	90	85	91	62	1	3.64	3.25	0.59	3.80	2.06	0.57	1.66	2.11	3.41	4.94	7.36	8.83	93.4	3.40
EPRI-SURE																				
Zanesville	100	99	88	99	95		3.27	3.21	0.61	3.85	2.49	0.70	1.58	2.18	3.01	5.28	7.19	16.03	133.2	4.35
Pennsylvania																				
NADP																				
Leading Ridge	92	100	92	90	47		3.39	3.44	0.77	4.42	3.07	0.48	1.09	1.88	3.80	6.32	7.84	17.49	92.5	3.13
MAP3s/PCN																				
Penn State	100	100	122	99	75		3.23	3.05	0.89	4.33	4.36	0.28	0.86	1.92	3.55	5.28	7.64	31.68	74.8	2.42
EPRI-SURE																				
Scranton	100	100	99	100	81		2.60	3.09	0.74	3.88	2.56	0.21	1.17	2.09	3.36	5.06	7.69	13.23	64.2	1.67
South Carolina																				
NADP																				
Clemson	90	100	99	79	40		1.93	2.23	0.58	2.58	1.40	0.37	1.08	1.61	2.40	3.29	4.69	7.56	123.3	2.38
Tennessee																				
EPRI-SURE																				
Giles County	100	99	89	99	40		1.57	1.87	0.60	2.24	1.49	0.52	0.84	1.34	1.70	2.94	4.74	7.27	89.0	1.40

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration													Total Precip cm	SO4 Dep g/m2
							Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max			
Virginia																					
MAP3s/PCN																					
Virginia	99	83	93	93	60		2.50	2.70	0.86	3.77	3.17	0.43	0.72	1.27	2.78	4.90	7.97	15.36		84.5	2.11
West Virginia																					
NADP																					
Parsons	96	100	92	96	50		3.56	3.60	0.63	4.33	2.90	0.50	1.68	2.52	3.48	5.35	8.49	17.44		122.3	4.36
EPRI-SURE																					
Lewisburg	100	97	96	98	78		2.16	2.13	0.76	2.76	2.00	0.16	0.73	1.29	2.13	3.84	5.44	9.83		74.2	1.60
Alberta																					
CANSAP																					
Edson	96	98	77	92	11		1.40	1.56	0.65	1.93	1.64	0.50	0.58	1.00	1.70	2.10	5.71	6.59		73.7	1.03
Rocky Mtn House	100	100	82	100	12		2.54	2.89	0.36	3.07	1.21	1.80	1.86	2.03	2.75	3.77	5.47	5.89		61.8	1.57
British Columbia																					
CANSAP																					
Kelowna	100	100	76	100	12		1.05	.92	0.54	1.04	.49	0.40	0.40	0.54	1.00	1.53	1.70	1.70		39.3	.41
Port Hardy	100	100	86	100	12		.95	.99	0.85	1.37	1.14	0.30	0.33	0.40	1.00	1.93	3.62	3.80		180.7	1.71
Revelstoke	100	100	88	100	12		.71	.69	0.45	.76	.41	0.40	0.43	0.50	0.55	1.03	1.62	1.80		108.2	.77
Terrace	100	100	79	100	12	1	.59	.68	0.82	.89	.65	0.20	0.26	0.43	0.75	1.08	2.22	2.40		136.8	.80
Manitoba																					
CANSAP																					
Bissett	100	100	76	100	12		.87	1.02	0.63	1.25	.92	0.50	0.50	0.63	0.87	1.73	3.07	3.10		54.2	.47
New Brunswick																					
CANSAP																					
Acadia Fes	100	100	88	100	12		2.17	1.91	0.58	2.22	1.30	0.62	0.77	1.35	1.80	3.00	4.78	5.29		126.4	2.75
St. John	100	100	83	100	12		2.81	2.72	0.37	2.89	1.01	1.50	1.53	1.85	3.05	3.55	4.48	4.60		125.1	3.52
Newfoundland																					
CANSAP																					
Goose	92	100	79	92	11		.98	1.05	0.32	1.11	.46	0.80	0.80	0.80	0.93	1.20	2.16	2.40		103.9	1.02
Nova Scotia																					
CANSAP																					
Kejimkujik	91	100	101	91	11		1.66	1.84	0.53	2.08	1.04	0.80	0.82	1.20	1.86	3.00	3.84	4.00		105.2	1.74
Shelburne	92	100	86	92	11		2.04	2.34	0.63	2.84	2.01	1.20	1.20	1.50	1.80	4.30	6.71	6.89		116.2	2.37
Ontario																					
CANSAP																					
ELA	99	100	81	99	12		1.17	1.08	0.48	1.21	.68	0.40	0.52	0.90	1.00	1.28	2.71	3.10		50.9	.60
Harrow	96	100	79	96	12		4.87	5.22	0.39	5.71	3.20	3.90	3.90	4.05	4.65	5.44	13.08	15.17		97.3	4.74
Kingston	92	100	79	92	11		3.98	4.36	0.43	4.73	1.96	2.00	2.20	3.20	4.00	7.09	7.62	7.69		89.7	3.57
Mount Forest	92	100	75	92	11		4.20	4.05	0.50	4.51	2.16	1.70	1.80	2.70	4.00	5.89	8.51	9.09		91.9	3.86
Simcoe	91	100	90	91	11		4.01	4.16	0.36	4.41	1.61	2.20	2.30	3.30	4.30	5.49	7.49	7.89		80.1	3.21
APN																					
Algoma	100	100	83	99	37		1.90	2.07	0.87	3.14	3.68	0.50	0.78	1.00	1.90	3.75	7.09	19.76		35.2	.67
Chalk River	100	99	94	98	142		2.82	2.84	0.78	3.82	3.26	0.30	1.03	1.60	2.80	4.99	7.36	20.16		95.5	2.69
ELA	100	96	87	99	98	4	1.01	1.00	0.90	1.44	1.27	0.20	0.40	0.50	0.95	2.00	3.21	5.89		51.7	.52
Long Point	100	99	95	96	99		4.01	3.89	0.61	4.66	3.04	0.70	1.80	2.50	4.10	6.19	7.79	20.56		86.5	3.47
Quebec																					
CANSAP																					
Quebec City	100	100	77	100	12		3.99	4.15	0.34	4.40	1.70	2.50	2.65	3.10	4.10	5.07	7.89	8.79		118.4	4.72
St. Hubert	92	100	77	92	11		3.55	4.01	0.42	4.38	2.21	2.40	2.40	3.00	3.70	5.09	9.35	10.18		95.0	3.38

Nitrate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Concentration Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NO3 Dep g/m2
Delaware																				
MAP3s/PCN																				
Lewes	100	99	87	97	62		1.46	1.48	1.01	2.22	1.93	0.07	0.38	0.79	1.83	2.96	5.26	9.30	91.6	1.33
EPRI-SURE																				
Indian River	100	99	98	98	41		1.15	1.16	1.04	1.81	1.62	0.14	0.20	0.62	1.22	2.82	4.35	7.58	56.8	.65
Indiana																				
EPRI-SURE																				
Fort Wayne	100	97	92	93	90		1.94	2.13	0.65	2.59	1.65	0.27	0.90	1.43	2.18	3.34	5.45	8.28	88.0	1.70
Rockport	100	100	94	99	76		1.20	1.52	0.69	1.96	1.93	0.17	0.60	1.01	1.54	2.22	3.03	15.28	92.5	1.11
New Hampshire																				
NADP																				
Hubbard Brook	90	99	99	85	43		1.84	1.88	0.68	2.37	1.95	0.37	0.80	1.27	1.94	2.69	4.17	11.99	86.8	1.59
New York																				
NADP																				
Aurora	90	100	93	85	44		2.46	2.70	0.61	3.18	1.76	0.56	0.96	1.88	2.72	4.22	5.35	9.27	79.6	1.96
Knobit	90	89	96	77	40		2.03	2.21	0.96	3.21	2.99	0.09	0.50	1.31	2.47	3.93	7.12	14.21	64.8	1.32
MAP3s/PCN																				
Brookhaven	100	99	91	98	57		1.63	1.82	0.99	2.86	3.10	0.14	0.58	0.90	2.05	3.19	6.13	16.12	81.1	1.32
Ithaca	100	98	94	98	74		1.92	2.02	0.78	2.61	1.88	0.18	0.93	1.24	2.36	3.18	5.55	9.92	94.9	1.82
Whiteface	100	98	113	97	81	1	1.63	1.48	0.88	1.97	1.64	0.02	0.62	0.93	1.61	2.39	3.47	9.92	83.9	1.36
North Carolina																				
NADP																				
Clinton Station	98	100	89	88	45		.99	1.15	0.89	1.66	1.73	0.09	0.34	0.68	1.11	2.22	3.04	10.55	116.5	1.15
Coweeta	94	99	93	87	44		.84	1.09	0.75	1.41	1.01	0.15	0.45	0.59	1.16	1.89	2.70	4.60	157.5	1.32
Lewiston	94	95	86	85	44	1	1.28	1.27	1.08	1.95	1.72	0.05	0.35	0.65	1.60	3.06	3.83	7.65	87.3	1.12
Piedmont Station	96	99	94	81	42		1.43	1.86	0.75	2.43	1.83	0.36	0.75	1.03	1.60	3.54	4.80	8.21	99.9	1.43
EPRI-SURE																				
Raleigh	100	95	87	96	68		1.12	1.32	0.75	1.73	1.49	0.26	0.40	0.80	1.62	2.01	2.93	10.27	94.1	1.06
Ohio																				
NADP																				
Caldwell	94	97	103	88	45		2.01	2.41	0.69	3.09	2.62	0.52	1.05	1.29	2.70	3.86	5.30	13.59	97.4	1.96
Delaware	96	100	93	88	46		2.21	2.32	0.70	2.95	2.85	0.14	1.22	1.67	2.29	3.27	4.49	19.82	108.6	2.40
Wooster	96	97	95	87	44		1.86	2.21	0.57	2.56	1.39	0.52	0.99	1.63	2.28	3.19	4.61	6.78	90.6	1.69
MAP3s/PCN																				
Oxford	100	88	84	90	61		1.91	2.08	0.54	2.41	1.43	0.62	1.05	1.33	1.92	3.10	4.39	6.82	93.4	1.78
EPRI-SURE																				
Zanesville	100	99	88	99	95		1.75	1.94	0.65	2.38	1.68	0.29	0.87	1.28	2.08	2.94	4.35	11.06	133.2	2.33
Pennsylvania																				
NADP																				
Leading Ridge	92	100	92	90	47		2.06	2.50	0.70	3.02	1.66	0.27	1.03	1.89	2.84	3.92	5.37	7.02	92.5	1.90
MAP3s/PCN																				
Penn State	100	100	122	99	75		1.91	2.37	0.72	3.00	2.13	0.44	0.88	1.55	2.60	3.84	5.43	10.54	74.8	1.43
EPRI-SURE																				
Scranton	100	100	99	100	81		1.74	2.11	0.67	2.61	1.83	0.30	1.02	1.44	2.19	3.44	4.58	10.86	64.2	1.12
South Carolina																				
NADP																				
Clemson	90	100	99	79	40		.96	1.21	0.75	1.55	1.10	0.16	0.43	0.75	1.16	2.08	3.25	4.56	123.3	1.19
Tennessee																				
EPRI-SURE																				
Giles County	100	99	89	99	40		.92	1.03	0.87	1.47	1.32	0.16	0.31	0.52	1.15	2.10	3.36	6.11	89.0	.82

Nitrate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NO3 Dep g/m2
Virginia																				
MAP3s/PCN																				
Virginia	99	83	93	93	60		1.70	1.91	0.82	2.59	1.99	0.35	0.56	1.01	1.92	3.50	5.98	9.30	84.5	1.44
West Virginia																				
NADP																				
Parsons	96	100	92	96	50		2.03	2.29	0.63	2.78	1.91	0.60	0.90	1.54	2.34	3.66	5.24	11.15	122.3	2.49
EPRI-SURE																				
Lewisburg	100	97	96	98	78		1.17	1.30	0.67	1.61	1.07	0.29	0.52	0.75	1.38	2.00	3.40	4.97	74.2	.87
Alberta																				
CANSAP																				
Edson	96	98	77	92	11		.46	.61	0.84	.91	1.03	0.23	0.23	0.32	0.54	0.80	3.32	3.64	73.7	.34
Rocky Mtn House	100	98	83	92	11	2	.97	.35	2.26	1.81	4.00	0.01	0.01	0.22	0.45	1.47	11.39	13.74	61.8	.60
British Columbia																				
CANSAP																				
Fort St. John	100	96	79	84	10	1	1.04	.74	1.89	1.66	1.76	0.01	0.04	0.44	0.98	2.48	5.57	5.85	49.1	.51
Kelowna	100	100	76	100	12	2	.80	.24	2.37	1.00	1.15	0.01	0.01	0.03	0.87	1.31	3.23	3.33	39.3	.31
Port Hardy	100	100	86	100	12	3	.16	.09	1.72	.21	.20	0.01	0.01	0.02	0.23	0.27	0.59	0.71	180.7	.29
Revelstoke	100	100	88	100	12		.28	.26	0.85	.35	.24	0.05	0.06	0.16	0.31	0.54	0.75	0.80	108.2	.31
Terrace	100	100	79	100	12	3	.07	.05	1.74	.15	.18	0.01	0.01	0.01	0.05	0.34	0.48	0.54	136.8	.10
Manitoba																				
CANSAP																				
Bissett	100	100	76	100	12	3	.30	.12	2.43	.73	1.08	0.01	0.01	0.02	0.11	1.08	3.02	3.28	54.2	.16
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	88	100	12		1.15	1.00	0.56	1.14	.61	0.36	0.41	0.62	1.13	1.46	2.27	2.57	126.4	1.45
St. John	100	100	83	100	12	1	1.23	.91	1.65	1.63	1.72	0.01	0.25	0.90	1.29	1.47	5.37	6.87	125.1	1.54
Newfoundland																				
CANSAP																				
Goose	92	100	79	92	11	3	.19	.08	1.92	.26	.38	0.01	0.01	0.01	0.09	0.36	1.11	1.29	103.9	.19
Nova Scotia																				
CANSAP																				
Kejimkujik	91	100	101	91	11		.71	.70	0.91	.92	.60	0.09	0.12	0.58	0.83	1.33	2.05	2.17	105.2	.75
Shelburne	92	100	86	92	11		1.01	1.13	0.69	1.43	1.18	0.46	0.50	0.67	0.97	2.35	3.96	4.26	116.2	1.17
Ontario																				
CANSAP																				
ELA	99	100	81	99	12	1	.91	.71	1.60	1.20	.88	0.01	0.14	0.52	0.93	2.03	2.72	2.84	50.9	.46
Harrow	96	100	79	96	12		2.71	2.77	0.43	3.04	1.47	1.38	1.48	2.17	2.53	3.76	6.09	6.65	97.3	2.64
Kingston	92	100	79	92	11		3.21	3.44	0.42	3.75	1.86	1.86	1.91	2.75	3.48	4.21	7.87	8.64	89.7	2.88
Mount Forest	92	100	75	92	11		3.17	3.31	0.42	3.60	1.60	1.86	1.86	2.44	3.24	4.52	6.79	7.09	91.9	2.92
Simcoe	91	100	90	91	11		2.86	2.98	0.41	3.27	1.92	2.00	2.01	2.17	2.88	3.28	7.79	8.86	80.1	2.29
APN																				
Algoma	100	98	84	99	34		1.75	1.24	1.20	2.22	2.59	0.05	0.25	0.67	1.53	2.78	5.36	11.87	35.2	.62
Chalk River	100	93	94	87	103	1	1.91	1.79	0.96	2.50	2.01	0.01	0.59	1.02	1.82	3.45	5.04	11.17	95.5	1.83
ELA	100	89	87	90	68	6	.89	.47	1.61	.96	1.02	0.01	0.04	0.31	0.67	1.07	2.52	4.74	51.7	.46
Long Point	100	95	95	93	85		2.92	3.06	0.65	3.74	2.46	0.71	1.14	1.91	3.19	4.94	7.00	13.06	86.5	2.52
Quebec																				
CANSAP																				
Quebec City	100	100	77	100	12		1.94	2.07	0.41	2.24	1.00	1.16	1.20	1.39	2.09	2.71	4.28	4.74	118.4	2.29
St. Hubert	92	100	77	92	11		2.29	2.70	0.45	2.98	1.58	1.29	1.41	1.95	2.48	3.64	6.49	7.18	95.0	2.18

Ammonium

1980 Annual Summary

19-Jul-1984
Page 1

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NH4 Dep g/m2
Delaware																				
MAP3s/PCN																				
Lewes	100	99	87	97	62		.27	.20	1.13	.34	.31	0.01	0.04	0.09	0.23	0.53	0.77	1.39	91.6	.24
EPRI-SURE																				
Indian River	100	98	98	98	40		.36	.34	0.89	.48	.41	0.05	0.10	0.19	0.32	0.72	0.88	1.91	56.8	.20
Indiana																				
EPRI-SURE																				
Fort Wayne	100	96	92	92	83		.45	.43	0.73	.58	.57	0.09	0.18	0.26	0.43	0.65	1.25	4.22	88.0	.39
Rockport	100	99	93	99	73	1	.28	.26	0.93	.38	.39	0.03	0.09	0.15	0.26	0.45	0.93	1.93	92.5	.26
New Hampshire																				
NADP																				
Hubbard Brook	90	99	99	85	43	6	.16	.11	1.27	.21	.27	0.02	0.02	0.05	0.13	0.25	0.48	1.64	86.8	.14
New York																				
NADP																				
Aurora	90	100	93	85	44	1	.42	.37	1.08	.54	.41	0.02	0.06	0.24	0.44	0.82	0.98	2.10	79.6	.33
Knobit	90	89	96	77	40	8	.27	.16	1.63	.40	.51	0.02	0.02	0.05	0.23	0.53	0.82	2.40	64.8	.17
MAP3s/PCN																				
Brookhaven	100	99	91	98	57		.35	.30	1.10	.54	.77	0.02	0.06	0.16	0.31	0.58	1.02	4.50	81.1	.28
Ithaca	100	98	94	98	74		.29	.27	1.08	.43	.42	0.01	0.06	0.13	0.36	0.54	0.84	2.16	94.9	.28
Whiteface	100	98	113	97	80		.32	.24	1.05	.38	.38	0.01	0.05	0.13	0.23	0.52	0.72	1.98	83.9	.27
North Carolina																				
NADP																				
Clinton Station	98	100	89	88	45	3	.17	.16	1.26	.31	.36	0.02	0.03	0.07	0.18	0.44	0.85	1.44	116.5	.20
Coweeta	94	99	93	87	44	10	.11	.08	1.49	.22	.36	0.02	0.02	0.03	0.10	0.24	0.58	1.86	157.5	.17
Lewiston	94	95	86	85	44	10	.20	.13	1.55	.32	.46	0.02	0.02	0.05	0.18	0.38	0.62	1.94	87.3	.17
Piedmont Station	96	99	94	81	42	2	.38	.30	1.31	.70	1.55	0.02	0.07	0.12	0.32	0.66	1.44	10.00	99.9	.38
EPRI-SURE																				
Raleigh	100	94	87	95	65		.25	.23	0.92	.35	.39	0.03	0.07	0.12	0.22	0.44	0.76	2.37	94.1	.23
Ohio																				
NADP																				
Caldwell	94	97	103	88	45	3	.28	.22	1.23	.40	.52	0.02	0.06	0.11	0.24	0.53	0.79	2.70	97.4	.27
Delaware	96	100	93	88	46	2	.43	.30	1.09	.49	.80	0.02	0.08	0.20	0.34	0.55	0.75	5.55	108.6	.46
Wooster	96	97	95	87	44	2	.33	.29	1.09	.44	.37	0.02	0.06	0.18	0.37	0.62	0.94	1.95	90.6	.30
MAP3s/PCN																				
Oxford	100	88	84	90	61		.44	.38	0.84	.54	.58	0.03	0.13	0.23	0.40	0.66	0.93	3.60	93.4	.41
EPRI-SURE																				
Zanesville	100	99	87	97	90		.33	.31	0.77	.41	.32	0.05	0.10	0.18	0.33	0.51	0.83	1.62	133.2	.44
Pennsylvania																				
NADP																				
Leading Ridge	92	100	92	90	47	4	.26	.23	1.17	.35	.28	0.02	0.06	0.11	0.30	0.48	0.84	1.08	92.5	.24
MAP3s/PCN																				
Penn State	100	100	122	99	75		.28	.28	1.02	.42	.36	0.02	0.06	0.15	0.36	0.54	0.81	1.80	74.8	.21
EPRI-SURE																				
Scranton	100	100	99	99	79	1	.24	.25	0.93	.37	.34	0.03	0.07	0.15	0.28	0.42	0.94	2.08	64.2	.16
South Carolina																				
NADP																				
Clemson	90	100	99	79	40	5	.15	.13	1.20	.23	.28	0.02	0.02	0.09	0.15	0.30	0.44	1.66	123.3	.18
Tennessee																				
EPRI-SURE																				
Giles County	100	96	89	97	34		.24	.21	0.73	.27	.21	0.05	0.07	0.13	0.22	0.33	0.62	1.05	89.0	.21

Ammonium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NH4 Dep g/m2
Virginia																				
MAP3s/PCN																				
Virginia	99	83	93	93	59	1	.30	.24	1.30	.44	.47	0.01	0.03	0.14	0.32	0.56	0.92	2.52	84.5	.25
West Virginia																				
NADP																				
Parsons	96	100	92	96	50	5	.24	.17	1.33	.35	.50	0.02	0.02	0.11	0.20	0.37	0.85	2.89	122.3	.29
EPRI-SURE																				
Lewisburg	100	96	96	97	73		.34	.29	1.00	.55	.99	0.05	0.09	0.14	0.31	0.48	1.05	6.09	74.2	.26
Alberta																				
CANSAP																				
Edson	96	98	77	92	11		.12	.16	0.95	.28	.45	0.06	0.06	0.08	0.13	0.23	1.35	1.60	73.7	.09
Rocky Mtn House	100	98	83	92	11	1	.21	.06	1.87	.14	.15	0.00	0.00	0.02	0.11	0.27	0.44	0.48	61.8	.13
British Columbia																				
CANSAP																				
Port St. John	100	96	79	84	10	1	.24	.02	2.46	.16	.21	0.00	0.00	0.00	0.01	0.37	0.49	0.49	49.1	.12
Kelowna	100	100	76	100	12		.16	.06	1.94	.23	.30	0.01	0.01	0.01	0.09	0.36	0.87	1.00	39.3	.06
Port Hardy	100	100	86	100	12	1	.05	.03	1.51	.07	.07	0.00	0.01	0.01	0.04	0.15	0.17	0.17	180.7	.09
Revelstoke	100	89	86	92	11		.03	.03	1.14	.05	.06	0.00	0.00	0.02	0.03	0.06	0.17	0.18	108.2	.04
Terrace	100	100	79	100	12	2	.01	.01	1.33	.02	.02	0.00	0.00	0.01	0.01	0.03	0.06	0.06	136.8	.01
Manitoba																				
CANSAP																				
Bissett	100	100	76	100	12	2	.08	.02	2.18	.22	.49	0.00	0.00	0.01	0.01	0.04	1.34	1.50	54.2	.04
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	88	100	12		.15	.08	1.58	.16	.16	0.00	0.00	0.05	0.14	0.25	0.48	0.56	126.4	.19
St. John	100	100	83	100	12		.25	.16	1.37	.31	.32	0.01	0.02	0.04	0.28	0.37	0.98	1.15	125.1	.32
Newfoundland																				
CANSAP																				
Goose	92	100	79	92	11	1	.03	.02	1.51	.05	.06	0.00	0.00	0.01	0.02	0.06	0.20	0.23	103.9	.04
Nova Scotia																				
CANSAP																				
Kejimkujik	91	100	101	91	11		.06	.05	1.39	.10	.14	0.01	0.01	0.01	0.04	0.14	0.43	0.49	105.2	.06
Shelburne	92	100	86	92	11		.11	.12	0.94	.18	.19	0.03	0.04	0.06	0.09	0.31	0.59	0.63	116.2	.13
APN																				
Kejimkujik	100	76	102	93	70	8	.11	.04	1.88	.13	.17	0.00	0.00	0.01	0.05	0.19	0.39	1.00	117.0	.13
Ontario																				
CANSAP																				
ELA	99	100	81	99	12		.23	.15	1.30	.28	.27	0.01	0.02	0.05	0.19	0.38	0.80	0.84	50.9	.12
Harrow	96	100	79	96	12		.65	.37	1.21	.59	.62	0.01	0.08	0.28	0.41	0.65	1.97	2.39	97.3	.63
Kingston	92	100	79	92	11		.57	.56	0.75	.70	.47	0.12	0.16	0.34	0.53	0.98	1.52	1.55	89.7	.51
Mount Forest	92	100	75	92	11		.77	.74	0.36	.79	.31	0.43	0.44	0.56	0.76	0.95	1.44	1.56	91.9	.71
Simcoe	91	100	90	91	11		.39	.38	0.61	.43	.22	0.08	0.12	0.33	0.39	0.54	0.88	0.95	80.1	.31
APN																				
Algoma	100	98	84	99	34	1	.40	.19	1.80	.51	.60	0.00	0.02	0.04	0.31	0.75	1.26	2.48	35.2	.14
Chalk River	100	93	94	87	103		.45	.38	1.02	.57	.54	0.01	0.10	0.21	0.47	0.68	1.23	3.57	95.5	.43
ELA	100	89	87	90	68	3	.32	.12	1.93	.38	.68	0.00	0.01	0.04	0.19	0.42	1.09	5.01	51.7	.16
Long Point	100	94	95	92	84		.48	.39	0.99	.56	.43	0.01	0.10	0.22	0.46	0.78	1.23	1.74	86.5	.41
Quebec																				
CANSAP																				
Quebec City	100	100	77	100	12		.63	.60	0.58	.71	.46	0.29	0.31	0.39	0.56	1.01	1.60	1.64	118.4	.74
St. Hubert	92	100	77	92	11		.54	.63	0.41	.68	.28	0.31	0.33	0.47	0.63	0.76	1.20	1.21	95.0	.51

1980 Annual Summary

Calcium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CA Dep g/m2
							Concentration					Percentiles mg/l								
Delaware																				
MAP3s/PCN																				
Lewes	100	99	87	97	62	2	.18	.14	1.16	.25	.32	0.01	0.04	0.07	0.13	0.30	0.66	1.48	91.6	.16
EPRI-SURE																				
Indian River	100	99	98	98	41		.13	.13	0.97	.21	.22	0.02	0.03	0.07	0.14	0.22	0.56	1.11	56.8	.07
Indiana																				
EPRI-SURE																				
Fort Wayne	100	97	92	92	85	3	.32	.26	1.23	.53	.79	0.01	0.07	0.13	0.23	0.66	1.15	4.36	88.0	.28
Rockport	100	99	93	98	69	1	.21	.20	1.08	.35	.39	0.02	0.05	0.11	0.18	0.43	1.10	1.65	92.5	.19
New Hampshire																				
NADP																				
Hubbard Brook	90	99	99	85	43	1	.11	.10	0.91	.15	.19	0.01	0.03	0.06	0.10	0.16	0.36	1.16	86.8	.09
New York																				
NADP																				
Aurora	90	100	93	85	44	1	.21	.22	0.84	.31	.34	0.05	0.07	0.13	0.22	0.36	0.76	1.69	79.6	.17
Knobit	90	89	96	77	40		.20	.21	1.14	.42	.82	0.02	0.04	0.08	0.22	0.44	0.77	5.07	64.8	.13
MAP3s/PCN																				
Brookhaven	100	99	91	98	57		.16	.17	0.89	.27	.36	0.03	0.06	0.09	0.16	0.30	0.62	2.41	81.1	.13
Ithaca	100	98	94	98	74	4	.12	.12	1.20	.24	.33	0.02	0.02	0.06	0.12	0.28	0.66	1.80	94.9	.12
Whiteface	100	98	113	97	80	5	.12	.09	1.10	.18	.38	0.02	0.02	0.04	0.09	0.16	0.30	2.53	83.9	.10
North Carolina																				
NADP																				
Clinton Station	98	100	89	88	45	1	.10	.11	1.09	.21	.31	0.02	0.03	0.05	0.12	0.20	0.55	1.57	116.5	.12
Coweeta	94	99	93	87	44	3	.07	.08	1.15	.16	.21	0.01	0.02	0.04	0.07	0.18	0.49	1.10	157.5	.11
Lewiston	94	95	86	85	44	1	.12	.17	1.25	.35	.49	0.02	0.04	0.06	0.14	0.38	1.19	2.11	87.3	.11
Piedmont Station	96	99	94	81	42		.14	.16	1.25	.33	.41	0.02	0.03	0.06	0.16	0.48	0.93	1.98	99.9	.14
EPRI-SURE																				
Raleigh	100	94	87	95	65	7	.08	.06	1.04	.13	.34	0.01	0.02	0.04	0.06	0.12	0.23	2.73	94.1	.08
Ohio																				
NADP																				
Caldwell	94	97	103	88	45		.23	.28	1.13	.59	1.15	0.04	0.06	0.12	0.22	0.58	1.08	6.60	97.4	.23
Delaware	96	100	93	88	46		.28	.29	0.90	.43	.48	0.04	0.09	0.17	0.28	0.53	0.77	2.30	108.6	.30
Wooster	96	97	95	87	44		.21	.26	0.92	.39	.39	0.03	0.08	0.13	0.24	0.55	0.84	2.20	90.6	.19
MAP3s/PCN																				
Oxford	100	88	84	90	61	1	.30	.24	1.04	.38	.41	0.02	0.06	0.12	0.28	0.40	0.91	2.29	93.4	.28
EPRI-SURE																				
Zanesville	100	98	88	98	91	3	.29	.24	1.17	.51	.91	0.02	0.05	0.12	0.23	0.47	1.18	5.93	133.2	.38
Pennsylvania																				
NADP																				
Leading Ridge	92	100	92	90	47		.18	.23	1.01	.36	.36	0.02	0.07	0.12	0.22	0.51	1.02	1.55	92.5	.17
MAP3s/PCN																				
Penn State	100	100	122	99	75		.21	.24	1.00	.42	.67	0.02	0.07	0.13	0.22	0.44	0.79	4.81	74.8	.16
EPRI-SURE																				
Scranton	100	99	99	99	79	4	.14	.14	0.97	.22	.28	0.02	0.04	0.07	0.14	0.27	0.46	1.82	64.2	.09
South Carolina																				
NADP																				
Clemson	90	100	99	79	40	2	.09	.10	1.03	.17	.21	0.02	0.03	0.06	0.10	0.13	0.52	0.91	123.3	.11
Tennessee																				
EPRI-SURE																				
Giles County	100	99	89	98	39		.14	.13	1.08	.23	.28	0.02	0.03	0.06	0.12	0.27	0.69	1.33	89.0	.13

Calcium

1980 Annual Summary

19-Jul-1984
Page 2

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CA Dep g/m2
Virginia																				
MAP3s/PCN																				
Virginia	99	83	93	93	58	4	.12	.11	1.27	.23	.32	0.01	0.02	0.06	0.10	0.29	0.69	1.68	84.5	.10
West Virginia																				
NADP																				
Parsons	96	100	92	96	50		.29	.30	0.91	.45	.53	0.04	0.08	0.16	0.29	0.52	0.96	3.30	122.3	.35
EPRI-SURE																				
Lewisburg	100	97	96	98	76	2	.14	.14	0.98	.24	.32	0.02	0.05	0.07	0.13	0.26	0.50	1.99	74.2	.10
Alberta																				
CANSAP																				
Edson	96	98	77	92	11		.55	.82	0.85	1.16	1.13	0.28	0.29	0.32	0.80	1.49	3.73	4.21	73.7	.40
Rocky Mtn House	100	100	82	100	12		1.18	1.36	0.54	1.58	1.04	0.66	0.71	0.87	1.29	1.70	3.85	4.21	61.8	.73
British Columbia																				
CANSAP																				
Port St. John	100	100	76	100	12		.91	1.27	1.15	2.17	2.00	0.30	0.31	0.40	1.13	4.13	5.27	5.60	49.1	.45
Kelowna	100	100	76	100	12		.39	.37	0.55	.44	.27	0.20	0.21	0.24	0.32	0.67	0.94	0.98	39.3	.16
Port Hardy	100	100	86	100	12		.22	.22	0.59	.27	.21	0.11	0.12	0.15	0.19	0.32	0.75	0.85	180.7	.39
Revelstoke	100	100	88	100	12		.46	.47	0.41	.51	.20	0.20	0.24	0.36	0.49	0.63	0.84	0.87	108.2	.49
Terrace	100	100	79	100	12		.16	.19	0.64	.23	.21	0.09	0.10	0.12	0.15	0.25	0.71	0.84	136.8	.22
Manitoba																				
CANSAP																				
Bissett	100	100	76	100	12		.39	.40	0.63	.51	.47	0.21	0.22	0.25	0.32	0.62	1.55	1.91	54.2	.21
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	88	100	12		.29	.26	0.45	.28	.12	0.10	0.12	0.19	0.29	0.36	0.48	0.49	126.4	.36
St. John	100	100	83	100	12		.53	.54	0.76	.76	.82	0.27	0.28	0.31	0.47	0.56	2.55	2.61	125.1	.67
Newfoundland																				
CANSAP																				
Goose	92	100	79	92	11		.16	.15	0.44	.16	.07	0.06	0.07	0.11	0.14	0.20	0.29	0.29	103.9	.16
Nova Scotia																				
CANSAP																				
Kejimkujik	91	100	101	91	11		.29	.21	0.60	.27	.27	0.12	0.12	0.13	0.20	0.22	0.91	1.07	105.2	.30
Shelburne	92	100	86	92	11		.19	.19	0.31	.20	.07	0.12	0.13	0.14	0.19	0.23	0.33	0.34	116.2	.22
Ontario																				
CANSAP																				
ELA	99	100	81	99	12		.34	.31	0.44	.34	.16	0.14	0.16	0.24	0.29	0.46	0.67	0.73	50.9	.17
Harrow	96	100	79	96	12		1.30	1.39	0.90	2.15	2.68	0.47	0.49	0.65	1.12	2.48	8.19	10.03	97.3	1.26
Kingston	92	100	79	92	11		.97	1.04	0.75	1.38	1.26	0.40	0.42	0.64	0.80	1.91	4.14	4.45	89.7	.87
Mount Forest	92	100	75	92	11		1.40	1.32	0.58	1.53	.87	0.59	0.62	0.75	1.12	2.36	2.91	2.96	91.9	1.28
Simcoe	91	100	90	91	11		.58	.57	0.54	.66	.40	0.25	0.27	0.41	0.50	0.95	1.50	1.61	80.1	.47
APN																				
Algoma	100	97	84	98	31		.67	.46	1.32	.86	1.01	0.01	0.15	0.25	0.47	1.13	2.82	4.41	35.2	.24
Chalk River	100	96	94	92	121		.46	.51	0.87	.79	1.04	0.04	0.19	0.26	0.51	0.84	1.79	7.02	95.5	.44
ELA	100	91	87	92	74		.39	.36	0.78	.50	.51	0.09	0.14	0.20	0.34	0.62	1.05	2.81	51.7	.20
Long Point	100	96	95	94	91		.65	.59	0.95	.99	1.38	0.12	0.20	0.29	0.48	1.31	2.27	9.43	86.5	.56
Quebec																				
CANSAP																				
Quebec City	100	100	77	100	12		1.02	.87	0.96	1.43	1.72	0.25	0.27	0.44	0.77	1.53	5.20	5.52	118.4	1.21
St. Hubert	92	100	77	92	11		.90	.94	0.78	1.31	1.36	0.35	0.36	0.51	0.81	1.34	4.51	5.01	95.0	.86

Chloride

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Concentration: Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CL Dep g/m2
Delaware																				
MAP3s/PCN																				
Lewes	100	99	87	97	62		2.70	.98	1.08	1.81	2.75	0.05	0.26	0.50	0.94	1.84	3.80	16.68	91.6	2.47
EPRI-SURE																				
Indian River	100	99	98	98	41		1.39	.64	1.07	1.12	1.31	0.07	0.15	0.35	0.52	1.06	3.75	4.95	56.8	.79
Indiana																				
EPRI-SURE																				
Fort Wayne	100	97	92	93	90		.15	.15	0.73	.19	.14	0.02	0.05	0.09	0.16	0.25	0.39	0.71	88.0	.13
Rockport	100	100	94	99	76		.13	.15	0.84	.22	.24	0.02	0.05	0.09	0.15	0.26	0.47	1.43	92.5	.12
New Hampshire																				
NADP																				
Hubbard Brook	90	99	99	85	43	2	.27	.21	0.72	.28	.28	0.05	0.12	0.16	0.21	0.28	0.50	1.85	86.8	.24
New York																				
NADP																				
Aurora	90	100	93	85	44	1	.23	.26	0.65	.31	.21	0.05	0.13	0.20	0.24	0.35	0.64	1.08	79.6	.18
Knobit	90	89	96	77	40		.27	.29	0.58	.35	.24	0.11	0.14	0.19	0.28	0.40	0.80	1.20	64.8	.17
MAP3s/PCN																				
Brookhaven	100	99	91	98	57		1.45	.93	0.82	1.28	1.05	0.15	0.32	0.48	0.92	1.76	2.81	4.97	81.1	1.18
Ithaca	100	98	94	98	74	1	.17	.18	0.78	.25	.24	0.02	0.07	0.12	0.17	0.32	0.53	1.46	94.9	.16
Whiteface	100	98	113	97	81	1	.17	.14	0.68	.18	.26	0.02	0.07	0.10	0.13	0.18	0.27	2.24	83.9	.14
North Carolina																				
NADP																				
Clinton Station	98	100	89	88	45		.52	.44	0.84	.68	.84	0.14	0.19	0.25	0.36	0.66	1.78	3.65	116.5	.60
Coweeta	94	99	93	87	44	3	.23	.19	0.75	.25	.20	0.05	0.10	0.15	0.19	0.30	0.43	1.23	157.5	.36
Lewiston	94	95	86	85	44	1	.65	.52	1.08	1.02	1.75	0.05	0.16	0.31	0.41	0.80	3.03	10.38	87.3	.57
Piedmont Station	96	99	94	81	42		.40	.43	0.90	.74	1.30	0.13	0.17	0.22	0.31	0.80	1.31	8.02	99.9	.40
EPRI-SURE																				
Raleigh	100	95	87	96	68		.34	.27	1.06	.56	1.04	0.02	0.09	0.14	0.25	0.38	1.00	6.36	94.1	.32
Ohio																				
NADP																				
Caldwell	94	97	103	88	45	1	.22	.27	0.71	.34	.25	0.05	0.13	0.17	0.28	0.39	0.78	1.13	97.4	.21
Delaware	96	100	93	88	46	1	.21	.23	0.63	.29	.24	0.05	0.12	0.18	0.24	0.31	0.45	1.51	108.6	.23
Wooster	96	97	95	87	44	2	.20	.24	0.74	.31	.23	0.05	0.12	0.16	0.25	0.38	0.56	1.35	90.6	.18
MAP3s/PCN																				
Oxford	100	88	84	90	61		.18	.19	0.55	.23	.15	0.06	0.09	0.13	0.19	0.27	0.35	0.85	93.4	.17
EPRI-SURE																				
Zanesville	100	99	88	99	95		.20	.21	0.81	.31	.50	0.01	0.08	0.13	0.21	0.32	0.56	4.64	133.2	.27
Pennsylvania																				
NADP																				
Leading Ridge	92	100	92	90	47	1	.25	.29	0.68	.36	.28	0.05	0.15	0.20	0.26	0.47	0.65	1.72	92.5	.23
MAP3s/PCN																				
Penn State	100	100	122	99	75		.26	.32	0.69	.42	.36	0.07	0.13	0.20	0.31	0.53	0.72	2.06	74.8	.20
EPRI-SURE																				
Scranton	100	100	99	100	81		.23	.19	0.95	.35	.72	0.03	0.06	0.09	0.18	0.31	0.58	4.85	64.2	.15
South Carolina																				
NADP																				
Clemson	90	100	99	79	40	3	.31	.24	0.92	.35	.33	0.05	0.07	0.19	0.24	0.40	0.71	1.90	123.3	.38
Tennessee																				
EPRI-SURE																				
Giles County	100	99	89	99	40		.21	.21	0.84	.31	.35	0.04	0.07	0.12	0.20	0.39	0.58	1.73	89.0	.18

1980 Annual Summary

Chloride

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CL Dep g/m2
Virginia																				
MAP3s/PCN																				
Virginia	99	83	93	93	60		.41	.26	0.87	.45	.82	0.06	0.11	0.14	0.21	0.39	0.94	4.97	84.5	.34
West Virginia																				
NADP																				
Parsons	96	100	92	96	50		.21	.23	0.52	.26	.15	0.10	0.11	0.15	0.20	0.32	0.43	0.76	122.3	.26
EPRI-SURE																				
Lewisburg	100	98	96	98	78		.17	.13	0.81	.18	.30	0.02	0.03	0.09	0.13	0.19	0.33	2.62	74.2	.12
Alberta																				
CANSAP																				
Edson	96	98	77	92	11	3	.09	.12	1.34	.29	.43	0.05	0.05	0.05	0.09	0.50	1.27	1.45	73.7	.07
Rocky Mtn House	100	100	82	100	12		.46	.54	1.03	.89	.90	0.17	0.18	0.21	0.43	1.76	2.54	2.69	61.8	.29
British Columbia																				
CANSAP																				
Kelowna	100	100	76	100	12	1	.23	.20	0.90	.26	.17	0.05	0.06	0.11	0.23	0.41	0.52	0.55	39.3	.09
Port Hardy	100	91	88	92	11		2.19	1.60	0.98	2.31	1.94	0.38	0.39	0.43	2.03	2.83	6.39	6.95	180.7	3.96
Revelstoke	100	100	88	100	12	2	.20	.21	0.38	.23	.08	0.11	0.11	0.15	0.24	0.38	0.50	0.50	108.2	.22
Terrace	100	100	79	100	12	3	.21	.15	1.00	.22	.19	0.05	0.05	0.09	0.20	0.36	0.65	0.71	136.8	.29
Manitoba																				
CANSAP																				
Bissett	100	100	76	100	12	1	.18	.17	0.93	.24	.22	0.05	0.05	0.10	0.18	0.33	0.70	0.82	54.2	.10
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	88	100	12		.28	.24	0.83	.35	.45	0.08	0.08	0.13	0.25	0.32	1.36	1.75	126.4	.35
St. John	100	100	83	100	12	1	1.53	.91	1.52	2.04	2.93	0.05	0.13	0.40	0.97	2.48	8.43	10.80	125.1	1.91
Newfoundland																				
CANSAP																				
Goose	92	100	79	92	11	1	.23	.17	0.94	.25	.23	0.05	0.05	0.11	0.22	0.27	0.79	0.88	103.9	.23
Nova Scotia																				
CANSAP																				
Kejimkujik	91	100	101	91	11		1.21	.68	1.03	1.03	.89	0.12	0.14	0.28	0.49	1.90	2.56	2.69	105.2	1.27
Shelburne	92	100	86	92	11		2.92	1.89	0.94	2.72	2.41	0.42	0.45	0.80	2.54	3.50	7.94	8.98	116.2	3.40
APN																				
Kejimkujik	100	77	102	94	75	6	1.18	.79	1.55	2.48	5.99	0.05	0.09	0.39	0.81	2.18	6.30	47.40	117.0	1.38
Ontario																				
CANSAP																				
ELA	99	100	81	99	12	3	.19	.13	1.01	.18	.13	0.05	0.05	0.08	0.18	0.25	0.42	0.48	50.9	.09
Harrow	96	100	79	96	12		.55	.37	1.18	.77	1.20	0.07	0.08	0.14	0.31	0.77	3.52	4.30	97.3	.54
Kingston	92	100	79	92	11	1	.26	.22	1.17	.41	.53	0.05	0.06	0.12	0.18	0.44	1.54	1.60	89.7	.24
Mount Forest	92	100	75	92	11		.48	.45	0.76	.60	.50	0.14	0.16	0.26	0.41	0.68	1.58	1.60	91.9	.44
Simcoe	91	100	90	91	11	1	.50	.35	1.36	.72	1.00	0.05	0.06	0.15	0.40	0.99	3.07	3.55	80.1	.40
APN																				
Algoma	100	100	83	99	37	1	.26	.26	0.92	.43	.70	0.05	0.08	0.15	0.26	0.41	0.91	4.26	35.2	.09
Chalk River	100	99	94	98	142	11	.35	.40	1.16	.77	1.23	0.05	0.08	0.19	0.45	0.84	1.78	8.51	95.5	.33
ELA	100	96	87	99	98	10	.22	.25	1.05	.44	.58	0.05	0.07	0.14	0.27	0.50	0.92	3.21	51.7	.11
Long Point	100	99	95	96	99	16	.33	.21	1.29	.48	.93	0.05	0.05	0.10	0.20	0.60	1.00	8.30	86.5	.28
Quebec																				
CANSAP																				
Quebec City	100	100	77	100	12	1	.48	.38	1.24	.67	.72	0.05	0.07	0.16	0.38	0.91	2.21	2.51	118.4	.57
St. Hubert	92	100	77	92	11		.57	.51	1.43	1.86	4.34	0.10	0.11	0.24	0.34	1.26	12.27	14.80	95.0	.54

Sodium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NA Dep g/m2
Delaware																				
MAP3s/PCN																				
Lewes	100	99	87	97	62		1.42	.53	1.13	.99	1.35	0.05	0.11	0.23	0.51	1.35	2.24	7.59	91.6	1.30
EPRI-SURE																				
Indian River	100	99	98	98	41		.75	.26	1.54	.61	.75	0.01	0.03	0.10	0.29	0.84	1.93	2.99	56.8	.42
Indiana																				
EPRI-SURE																				
Fort Wayne	100	97	92	92	85	7	.07	.05	1.13	.09	.13	0.00	0.02	0.02	0.06	0.12	0.20	0.95	88.0	.06
Rockport	100	99	93	98	69	5	.05	.04	1.27	.09	.15	0.00	0.01	0.02	0.04	0.08	0.26	0.89	92.5	.05
New Hampshire																				
NADP																				
Hubbard Brook	90	99	99	85	43		.23	.10	1.30	.25	.47	0.01	0.02	0.04	0.09	0.18	0.92	1.96	86.8	.20
New York																				
NADP																				
Aurora	90	100	93	85	44		.21	.09	1.22	.19	.24	0.01	0.02	0.04	0.09	0.25	0.47	1.12	79.6	.17
Knobit	90	89	96	77	40		.21	.14	1.35	.39	.86	0.01	0.02	0.05	0.14	0.24	0.75	4.76	64.8	.14
MAP3s/PCN																				
Brookhaven	100	99	91	98	57		.82	.43	1.07	.68	.65	0.01	0.13	0.23	0.44	1.00	1.61	2.99	81.1	.67
Ithaca	100	98	94	98	74	2	.06	.04	1.01	.07	.10	0.01	0.01	0.02	0.04	0.09	0.18	0.69	94.9	.05
Whiteface	100	98	113	97	80	1	.05	.04	0.91	.06	.13	0.01	0.01	0.02	0.03	0.06	0.10	1.06	83.9	.04
North Carolina																				
NADP																				
Clinton Station	98	100	89	88	45		.34	.26	1.07	.44	.50	0.02	0.08	0.10	0.25	0.54	1.18	2.02	116.5	.39
Coweeta	94	99	93	87	44		.21	.10	1.25	.19	.27	0.00	0.02	0.04	0.12	0.25	0.51	1.60	157.5	.33
Lewiston	94	95	86	85	44		.54	.39	1.32	1.06	2.75	0.01	0.07	0.21	0.41	0.76	2.11	17.82	87.3	.47
Piedmont Station	96	99	94	81	42		.32	.19	1.34	.42	.58	0.01	0.04	0.06	0.18	0.48	1.19	2.51	99.9	.32
EPRI-SURE																				
Raleigh	100	94	87	95	65	3	.18	.11	1.28	.27	.56	0.01	0.02	0.05	0.12	0.21	0.50	3.77	94.1	.17
Ohio																				
NADP																				
Caldwell	94	97	103	88	45		.10	.08	1.32	.20	.33	0.01	0.01	0.03	0.08	0.18	0.69	1.78	97.4	.10
Delaware	96	100	93	88	46		.13	.09	1.20	.19	.32	0.00	0.02	0.04	0.08	0.15	0.50	1.49	108.6	.14
Wooster	96	97	95	87	44		.08	.08	1.09	.14	.17	0.01	0.02	0.04	0.07	0.18	0.41	0.73	90.6	.08
MAP3s/PCN																				
Oxford	100	88	84	90	61	2	.07	.05	0.90	.08	.08	0.01	0.02	0.03	0.05	0.10	0.16	0.53	93.4	.06
EPRI-SURE																				
Zanesville	100	99	88	98	92	7	.09	.08	1.10	.15	.24	0.01	0.02	0.04	0.09	0.17	0.36	2.09	133.2	.12
Pennsylvania																				
NADP																				
Leading Ridge	92	100	92	90	47		.18	.11	1.27	.25	.42	0.01	0.02	0.04	0.10	0.29	0.50	2.45	92.5	.16
MAP3s/PCN																				
Penn State	100	100	122	99	75		.10	.10	1.01	.17	.20	0.01	0.02	0.06	0.09	0.20	0.48	1.08	74.8	.07
EPRI-SURE																				
Scranton	100	99	99	99	79	5	.11	.07	1.24	.16	.34	0.00	0.02	0.03	0.07	0.18	0.34	2.41	64.2	.07
South Carolina																				
NADP																				
Clemson	90	100	99	79	40		.21	.14	1.09	.23	.26	0.01	0.03	0.05	0.16	0.29	0.61	1.17	123.3	.26
Tennessee																				
EPRI-SURE																				
Giles County	100	99	89	98	39		.14	.14	1.03	.23	.27	0.02	0.03	0.07	0.13	0.31	0.51	1.26	89.0	.12

Sodium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Concentration: Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NA Dep g/m2
Virginia																				
MAP3s/PCN																				
Virginia	99	83	93	93	59	2	.22	.08	1.24	.21	.47	0.01	0.02	0.03	0.08	0.13	0.41	2.76	84.5	.18
West Virginia																				
NADP																				
Parsons	96	100	92	96	50	1	.15	.08	1.32	.23	.69	0.00	0.02	0.04	0.09	0.14	0.25	4.74	122.3	.18
EPRI-SURE																				
Lewisburg	100	97	96	98	76	3	.09	.05	1.09	.10	.19	0.00	0.01	0.03	0.06	0.11	0.17	1.65	74.2	.07
Alberta																				
CANSAP																				
Edson	96	98	77	83	10		.17	.16	1.23	.31	.43	0.02	0.02	0.06	0.16	0.36	1.27	1.32	73.7	.13
Rocky Mtn House	100	97	84	91	11	1	.29	.33	1.10	.63	.85	0.12	0.13	0.16	0.23	1.15	2.53	2.81	61.8	.18
British Columbia																				
CANSAP																				
Fort St. John	100	99	77	92	11	1	.28	.23	1.35	.48	.55	0.03	0.04	0.06	0.25	0.92	1.51	1.54	49.1	.14
Kelowna	100	100	76	100	12		.43	.29	1.02	.46	.50	0.05	0.06	0.16	0.22	0.60	1.55	1.85	39.3	.17
Port Hardy	100	100	86	100	12		1.06	.86	0.66	1.03	.56	0.30	0.30	0.44	1.11	1.36	2.00	2.25	180.7	1.91
Revelstoke	100	100	88	100	12	3	.15	.12	0.96	.16	.11	0.02	0.03	0.09	0.18	0.27	0.33	0.34	108.2	.16
Terrace	100	100	79	100	12	2	.16	.14	1.08	.21	.18	0.02	0.03	0.08	0.20	0.24	0.58	0.60	136.8	.23
Manitoba																				
CANSAP																				
Bissett	100	100	76	100	12	1	.17	.15	0.93	.23	.27	0.03	0.04	0.08	0.16	0.28	0.83	1.00	54.2	.09
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	88	100	12		.28	.24	0.87	.34	.31	0.07	0.08	0.11	0.21	0.46	0.95	0.95	126.4	.35
St. John	100	100	83	100	12		.96	.61	1.16	1.18	1.86	0.07	0.10	0.32	0.54	1.30	5.30	6.92	125.1	1.21
Newfoundland																				
CANSAP																				
Goose	92	100	79	92	11		.31	.25	0.72	.31	.20	0.09	0.09	0.12	0.30	0.52	0.67	0.70	103.9	.32
Nova Scotia																				
CANSAP																				
Kejimkujik	91	100	101	91	11		.74	.42	0.84	.58	.48	0.13	0.14	0.21	0.40	1.04	1.47	1.53	105.2	.77
Shelburne	92	100	86	92	11		1.58	.97	0.94	1.43	1.39	0.25	0.27	0.35	1.46	1.70	4.52	5.11	116.2	1.83
Ontario																				
CANSAP																				
ELA	99	98	82	91	11		.18	.16	0.74	.20	.13	0.03	0.04	0.13	0.18	0.25	0.43	0.43	50.9	.09
Harrow	96	100	79	96	12	2	.18	.17	0.63	.20	.12	0.06	0.07	0.13	0.20	0.29	0.42	0.42	97.3	.18
Kingston	92	100	79	92	11	2	.19	.14	1.02	.26	.39	0.04	0.05	0.07	0.14	0.33	1.20	1.39	89.7	.17
Mount Forest	92	100	75	92	11		.53	.43	1.12	.76	.95	0.06	0.08	0.20	0.40	1.00	2.95	3.35	91.9	.49
Simcoe	91	100	90	91	11		.32	.28	0.87	.39	.33	0.07	0.07	0.17	0.30	0.50	1.07	1.11	80.1	.25
APN																				
Algoma	100	97	84	98	32		.36	.30	1.04	.50	.48	0.05	0.08	0.12	0.28	0.93	1.29	1.62	35.2	.13
Chalk River	100	93	94	90	113	8	.25	.26	1.03	.44	.54	0.02	0.08	0.16	0.24	0.54	1.06	4.10	95.5	.24
ELA	100	90	86	91	69	2	.26	.18	1.16	.41	1.08	0.01	0.05	0.08	0.17	0.31	0.95	8.80	51.7	.13
Long Point	100	96	95	94	89	11	.16	.14	0.94	.22	.31	0.02	0.03	0.08	0.18	0.27	0.45	2.45	86.5	.14
Quebec																				
CANSAP																				
Quebec City	100	100	77	100	12	1	.20	.17	0.80	.23	.21	0.06	0.06	0.08	0.20	0.28	0.68	0.72	118.4	.24
St. Hubert	92	100	77	92	11	1	.34	.29	1.03	.48	.57	0.07	0.08	0.18	0.25	0.79	1.75	1.90	95.0	.32

1980 Annual Summary

Magnesium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Min	10%	25%	50%	75%	90%	Max	Total Precip cm	MG Dep g/m2
Delaware																				
MAP3s/PCN																				
Lewes	100	99	87	97	62	1	.16	.08	1.02	.13	.14	0.01	0.02	0.04	0.09	0.19	0.26	0.73	91.6	.15
EPRI-SURE																				
Indian River	100	99	98	98	41		.09	.05	1.03	.08	.08	0.01	0.01	0.02	0.06	0.12	0.22	0.34	56.8	.05
Indiana																				
EPRI-SURE																				
Fort Wayne	100	97	92	92	85	8	.06	.05	1.35	.12	.20	0.00	0.01	0.02	0.04	0.15	0.27	1.39	88.0	.06
Rockport	100	99	93	98	69	10	.02	.02	1.19	.04	.05	0.00	0.01	0.01	0.02	0.04	0.12	0.23	92.5	.02
New Hampshire																				
NADP																				
Hubbard Brook	90	99	99	85	43		.03	.03	0.80	.04	.04	0.00	0.01	0.02	0.03	0.04	0.06	0.23	86.8	.03
New York																				
NADP																				
Aurora	90	100	93	85	44		.04	.04	0.90	.07	.09	0.00	0.01	0.02	0.04	0.07	0.14	0.56	79.6	.03
Knobit	90	89	96	77	40		.04	.05	1.04	.09	.17	0.01	0.01	0.02	0.05	0.09	0.16	1.08	64.8	.03
MAP3s/PCN																				
Brookhaven	100	99	91	98	57	1	.11	.08	0.86	.11	.08	0.01	0.03	0.05	0.09	0.15	0.22	0.39	81.1	.09
Ithaca	100	98	94	98	74	20	.02	.02	1.09	.04	.05	0.01	0.01	0.01	0.02	0.04	0.09	0.29	94.9	.02
Whiteface	100	98	113	97	80	39	.02	.01	1.07	.03	.06	0.01	0.01	0.01	0.01	0.02	0.05	0.46	83.9	.01
North Carolina																				
NADP																				
Clinton Station	98	100	89	88	45		.04	.04	0.94	.07	.08	0.00	0.02	0.03	0.04	0.07	0.24	0.36	116.5	.05
Coweeta	94	99	93	87	44	1	.02	.02	1.09	.03	.04	0.00	0.00	0.01	0.02	0.04	0.08	0.18	157.5	.03
Lewiston	94	95	86	85	44		.06	.06	1.12	.11	.14	0.00	0.01	0.03	0.06	0.11	0.30	0.75	87.3	.05
Piedmont Station	96	99	94	81	42		.05	.05	1.31	.12	.24	0.00	0.01	0.02	0.05	0.12	0.24	1.50	99.9	.05
EPRI-SURE																				
Raleigh	100	94	87	95	65	5	.03	.02	1.20	.06	.22	0.00	0.01	0.01	0.02	0.04	0.09	1.70	94.1	.03
Ohio																				
NADP																				
Caldwell	94	97	103	88	45		.04	.05	1.08	.10	.19	0.01	0.01	0.02	0.04	0.10	0.17	1.10	97.4	.04
Delaware	96	100	93	88	46		.04	.05	0.90	.08	.11	0.01	0.02	0.03	0.05	0.08	0.15	0.53	108.6	.05
Wooster	96	97	95	87	44		.04	.04	0.88	.07	.08	0.01	0.02	0.03	0.04	0.09	0.14	0.44	90.6	.03
MAP3s/PCN																				
Oxford	100	88	84	90	61	9	.04	.03	1.07	.05	.06	0.01	0.01	0.02	0.03	0.06	0.14	0.27	93.4	.04
EPRI-SURE																				
Zanesville	100	99	88	98	92	8	.03	.03	1.16	.06	.09	0.00	0.01	0.01	0.03	0.06	0.11	0.47	133.2	.04
Pennsylvania																				
NADP																				
Leading Ridge	92	100	92	90	47		.03	.04	0.95	.07	.07	0.00	0.02	0.02	0.04	0.06	0.18	0.37	92.5	.03
MAP3s/PCN																				
Penn State	100	100	122	99	75	7	.02	.03	0.99	.05	.08	0.01	0.01	0.02	0.03	0.06	0.10	0.44	74.8	.02
EPRI-SURE																				
Scranton	100	99	99	99	79	10	.02	.02	1.15	.04	.05	0.00	0.01	0.01	0.02	0.04	0.07	0.30	64.2	.01
South Carolina																				
NADP																				
Clemson	90	100	99	79	40		.03	.02	0.97	.04	.04	0.00	0.01	0.01	0.02	0.05	0.10	0.17	123.3	.03
Tennessee																				
EPRI-SURE																				
Giles County	100	99	89	98	39	1	.02	.01	1.15	.02	.03	0.00	0.00	0.01	0.02	0.03	0.06	0.11	89.0	.02

Magnesium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	MG Dep g/m2
Virginia																				
MAP3s/PCN																				
Virginia	99	83	93	93	58	13	.03	.02	1.14	.05	.06	0.01	0.01	0.01	0.02	0.05	0.12	0.32	84.5	.03
West Virginia																				
NADP																				
Parsons	96	100	92	96	50		.03	.03	0.82	.05	.05	0.00	0.01	0.02	0.03	0.06	0.09	0.31	122.3	.04
EPRI-SURE																				
Lewisburg	100	97	96	98	76	8	.02	.01	1.08	.03	.04	0.00	0.01	0.01	0.01	0.03	0.07	0.23	74.2	.01
Alberta																				
CANSAP																				
Edson	96	98	77	92	11		.06	.09	0.84	.13	.11	0.03	0.03	0.04	0.08	0.18	0.37	0.40	73.7	.05
Rocky Mtn House	100	100	82	100	12		.15	.17	0.71	.22	.20	0.08	0.09	0.10	0.14	0.29	0.63	0.65	61.8	.09
British Columbia																				
CANSAP																				
Fort St. John	100	100	76	100	12		.12	.16	1.06	.26	.24	0.04	0.04	0.06	0.15	0.49	0.65	0.71	49.1	.06
Kelowna	100	100	76	100	12		.05	.04	0.65	.05	.03	0.01	0.01	0.02	0.04	0.08	0.08	0.08	39.3	.02
Port Hardy	100	100	86	100	12		.15	.12	0.85	.17	.13	0.04	0.04	0.04	0.14	0.26	0.40	0.43	180.7	.27
Revelstoke	100	100	88	100	12		.05	.05	0.47	.05	.03	0.02	0.02	0.03	0.04	0.08	0.10	0.10	108.2	.05
Terrace	100	100	79	100	12		.02	.02	0.58	.03	.02	0.01	0.01	0.01	0.02	0.04	0.06	0.07	136.8	.03
Manitoba																				
CANSAP																				
Bissett	100	100	76	100	12		.06	.06	0.75	.08	.09	0.03	0.03	0.03	0.04	0.09	0.27	0.33	54.2	.03
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	88	100	12		.10	.07	0.67	.09	.06	0.02	0.03	0.04	0.08	0.13	0.22	0.24	126.4	.13
St. John	100	100	83	100	12		.25	.23	0.92	.37	.47	0.08	0.08	0.10	0.21	0.26	1.45	1.63	125.1	.31
Newfoundland																				
CANSAP																				
Goose	92	100	79	92	11		.03	.03	0.48	.03	.02	0.01	0.01	0.02	0.03	0.04	0.06	0.06	103.9	.03
Nova Scotia																				
CANSAP																				
Kejimkujik	91	100	101	91	11		.11	.08	0.65	.10	.06	0.03	0.03	0.05	0.07	0.13	0.22	0.23	105.2	.11
Shelburne	92	100	86	92	11		.20	.15	0.77	.19	.15	0.04	0.05	0.07	0.19	0.24	0.52	0.59	116.2	.24
Ontario																				
CANSAP																				
ELA	99	100	81	99	12		.05	.05	0.43	.05	.03	0.03	0.03	0.03	0.04	0.06	0.11	0.12	50.9	.03
Harrow	96	100	79	96	12		.38	.40	0.94	.62	.72	0.08	0.10	0.25	0.37	0.78	2.22	2.67	97.3	.37
Kingston	92	100	79	92	11		.10	.12	0.69	.15	.14	0.05	0.05	0.07	0.09	0.20	0.46	0.51	89.7	.09
Mount Forest	92	100	75	92	11		.46	.41	0.74	.52	.34	0.14	0.14	0.20	0.47	0.82	1.09	1.13	91.9	.42
Simcoe	91	100	90	91	11		.11	.11	0.80	.16	.18	0.04	0.05	0.07	0.07	0.17	0.57	0.65	80.1	.09
APN																				
Algoma	100	97	84	98	31	2	.10	.07	1.19	.14	.18	0.01	0.02	0.03	0.06	0.16	0.41	0.86	35.2	.04
Chalk River	100	96	94	92	121		.06	.07	0.87	.10	.14	0.01	0.02	0.03	0.06	0.11	0.22	1.09	95.5	.06
ELA	100	91	87	92	74		.06	.05	0.93	.08	.09	0.01	0.02	0.03	0.05	0.09	0.20	0.44	51.7	.03
Long Point	100	96	95	94	91		.09	.09	0.98	.14	.20	0.01	0.02	0.04	0.07	0.20	0.30	1.62	86.5	.08
Quebec																				
CANSAP																				
Quebec City	100	100	77	100	12		.05	.05	0.56	.06	.04	0.02	0.02	0.03	0.05	0.07	0.14	0.15	118.4	.06
St. Hubert	92	100	77	92	11		.09	.10	0.63	.12	.08	0.04	0.04	0.05	0.08	0.17	0.27	0.28	95.0	.09

1980 Annual Summary

Potassium

19-Jul-1984
Page 1

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	K Dep g/m2
Delaware																				
MAP3s/PCN																				
Lewes	100	99	87	97	62	1	.12	.07	0.93	.12	.14	0.01	0.02	0.04	0.07	0.16	0.26	0.90	91.6	.11
EPRI-SURE																				
Indian River	100	99	98	98	41	5	.05	.04	1.10	.11	.38	0.01	0.01	0.02	0.05	0.07	0.15	2.50	56.8	.03
New Hampshire																				
NADP																				
Hubbard Brook	90	99	99	85	43	4	.02	.01	1.05	.02	.02	0.00	0.00	0.01	0.02	0.03	0.04	0.12	86.8	.02
New York																				
NADP																				
Aurora	90	100	93	85	44		.03	.02	0.89	.03	.03	0.00	0.01	0.01	0.03	0.04	0.08	0.11	79.6	.02
Knobit	90	89	96	77	40	3	.03	.03	1.27	.05	.05	0.00	0.00	0.01	0.03	0.06	0.13	0.21	64.8	.02
MAP3s/PCN																				
Brookhaven	100	99	91	98	57	2	.13	.09	1.03	.19	.48	0.02	0.03	0.05	0.08	0.14	0.31	3.60	81.1	.11
Ithaca	100	98	94	98	74	15	.06	.03	1.01	.06	.12	0.01	0.02	0.02	0.03	0.06	0.15	0.98	94.9	.06
Whiteface	100	98	113	97	80	15	.04	.03	0.97	.06	.08	0.02	0.02	0.02	0.03	0.05	0.11	0.55	83.9	.04
North Carolina																				
NADP																				
Clinton Station	98	100	89	88	45		.04	.03	0.97	.05	.05	0.01	0.01	0.01	0.03	0.06	0.11	0.21	116.5	.05
Coweeta	94	99	93	87	44	3	.02	.02	1.10	.03	.03	0.00	0.00	0.01	0.02	0.03	0.08	0.17	157.5	.03
Lewiston	94	95	86	85	44		.03	.04	1.02	.06	.06	0.00	0.01	0.02	0.04	0.08	0.15	0.28	87.3	.03
Piedmont Station	96	99	94	81	42		.15	.05	1.53	.33	1.36	0.00	0.01	0.02	0.04	0.11	0.41	8.80	99.9	.15
Ohio																				
NADP																				
Caldwell	94	97	103	88	45	2	.02	.02	1.11	.04	.06	0.00	0.01	0.01	0.02	0.05	0.10	0.30	97.4	.02
Delaware	96	100	93	88	46		.03	.02	0.81	.03	.03	0.00	0.01	0.01	0.02	0.05	0.07	0.12	108.6	.03
Wooster	96	97	95	87	44	1	.03	.03	0.93	.04	.04	0.00	0.01	0.01	0.03	0.06	0.11	0.15	90.6	.03
MAP3s/PCN																				
Oxford	100	88	84	90	61	10	.05	.04	0.99	.06	.07	0.02	0.02	0.02	0.04	0.08	0.14	0.38	93.4	.05
Pennsylvania																				
NADP																				
Leading Ridge	92	100	92	90	47	1	.05	.04	1.12	.07	.08	0.00	0.01	0.02	0.04	0.09	0.19	0.39	92.5	.05
MAP3s/PCN																				
Penn State	100	100	122	99	75	14	.05	.05	1.17	.10	.17	0.02	0.02	0.03	0.06	0.10	0.25	1.25	74.8	.04
South Carolina																				
NADP																				
Clemson	90	100	99	79	40		.02	.02	0.85	.03	.04	0.00	0.01	0.01	0.02	0.03	0.05	0.21	123.3	.02
Tennessee																				
EPRI-SURE																				
Giles County	100	99	89	98	39	1	.09	.05	1.46	.14	.27	0.00	0.02	0.03	0.05	0.11	0.32	1.19	89.0	.08
Virginia																				
MAP3s/PCN																				
Virginia	99	83	93	93	59	9	.10	.05	1.21	.10	.14	0.01	0.02	0.03	0.05	0.13	0.22	0.74	84.5	.08
West Virginia																				
NADP																				
Parsons	96	100	92	96	50		.04	.04	0.86	.06	.07	0.00	0.01	0.02	0.04	0.06	0.11	0.38	122.3	.05
Alberta																				
CANSAP																				
Edson	96	98	77	83	10		.10	.12	0.88	.18	.19	0.04	0.04	0.06	0.12	0.24	0.62	0.64	73.7	.08
Rocky Mtn House	100	97	84	91	11		.21	.22	1.11	.39	.46	0.04	0.05	0.09	0.15	0.61	1.34	1.39	61.8	.13

Potassium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration					Percentiles mg/l							Total Precip cm	K Dep g/m2
							Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Min	10%	25%	50%	75%	90%	Max		
British Columbia																				
CANSAP																				
Port St. John	100	99	77	92	11		.17	.18	1.11	.33	.40	0.03	0.04	0.08	0.18	0.37	1.24	1.35	49.1	.08
Kelowna	100	100	76	100	12	2	.14	.06	1.69	.14	.17	0.00	0.01	0.02	0.09	0.18	0.50	0.60	39.3	.05
Port Hardy	100	100	86	100	12		.16	.06	1.67	.21	.48	0.00	0.01	0.02	0.08	0.12	1.27	1.75	180.7	.29
Revelstoke	100	100	88	100	12		.15	.15	0.40	.16	.07	0.08	0.09	0.10	0.15	0.19	0.29	0.29	108.2	.16
Terrace	100	100	79	100	12	1	.06	.06	0.82	.08	.07	0.02	0.02	0.04	0.05	0.13	0.22	0.23	136.8	.08
Manitoba																				
CANSAP																				
Bissett	100	100	76	100	12	2	.04	.03	1.53	.08	.09	0.00	0.01	0.01	0.04	0.11	0.28	0.30	54.2	.02
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	88	100	12		.08	.08	0.46	.09	.04	0.03	0.04	0.06	0.07	0.11	0.18	0.20	126.4	.10
St. John	100	100	83	100	12		.14	.13	0.95	.20	.26	0.03	0.04	0.06	0.11	0.23	0.78	0.98	125.1	.18
Newfoundland																				
CANSAP																				
Goose	92	100	79	92	11	1	.09	.08	0.87	.11	.10	0.02	0.03	0.04	0.07	0.16	0.31	0.34	103.9	.09
Nova Scotia																				
CANSAP																				
Kejimkujik	91	100	101	91	11	1	.09	.07	0.96	.12	.16	0.02	0.02	0.06	0.06	0.10	0.51	0.60	105.2	.09
Shelburne	92	100	86	92	11		.17	.12	1.03	.21	.31	0.02	0.03	0.05	0.10	0.20	0.94	1.12	116.2	.20
Ontario																				
CANSAP																				
ELA	99	98	82	91	11		.11	.11	0.56	.13	.07	0.04	0.05	0.06	0.12	0.18	0.25	0.26	50.9	.06
Harrow	96	100	79	96	12		.16	.13	0.98	.22	.30	0.04	0.05	0.05	0.11	0.26	0.90	1.09	97.3	.15
Kingston	92	100	79	92	11		.19	.19	0.74	.26	.23	0.09	0.09	0.10	0.15	0.31	0.71	0.71	89.7	.17
Mount Forest	92	100	75	92	11		.10	.10	0.64	.13	.12	0.05	0.05	0.06	0.08	0.13	0.40	0.45	91.9	.09
Simcoe	91	100	90	91	11		.15	.11	1.11	.22	.37	0.02	0.02	0.06	0.10	0.19	1.12	1.33	80.1	.12
APN																				
Algoma	100	97	84	98	32	5	.07	.06	1.04	.10	.09	0.02	0.02	0.03	0.08	0.16	0.24	0.35	35.2	.02
Chalk River	100	93	94	90	113	1	.19	.20	0.93	.31	.36	0.02	0.06	0.12	0.21	0.34	0.70	2.34	95.5	.18
ELA	100	90	86	91	69	3	.16	.13	0.94	.19	.19	0.02	0.04	0.07	0.14	0.24	0.35	1.04	51.7	.08
Long Point	100	96	95	94	89	7	.10	.09	1.13	.15	.18	0.01	0.02	0.03	0.10	0.20	0.31	1.02	86.5	.09
Quebec																				
CANSAP																				
Quebec City	100	100	77	100	12		.11	.11	0.76	.15	.15	0.03	0.04	0.08	0.10	0.18	0.48	0.60	118.4	.13
St. Hubert	92	100	77	92	11		.10	.14	1.20	.47	1.18	0.05	0.05	0.06	0.11	0.18	3.25	4.01	95.0	.10

1981 ANNUAL STATISTICAL SUMMARIES FOR pH, SPECIFIC CONDUCTANCE, HYDROGEN ION, MAJOR ION SPECIES, BY INDIVIDUAL MONITORING SITE

pH

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Wtd. Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	Percentiles 10%	Percentiles 25%	Percentiles 50%	Percentiles 75%	Percentiles 90%	Percentiles Max	Total Precip cm
Alaska																		
NADP																		
Mt. Mckinley Park	96	97	96	81	41	5.5	6.0	0.09	6.0	0.6	5.08	5.34	5.56	5.86	6.47	6.78	7.31	41.9
Arizona																		
NADP																		
Organ Pipe Mon.	94	100	97	88	17	4.9	5.8	0.15	5.8	0.8	4.27	4.44	5.28	5.97	6.28	7.02	7.29	18.4
Arkansas																		
NADP																		
Fayetteville	98	95	99	89	42	5.0	5.3	0.13	5.4	0.7	4.04	4.64	4.80	5.12	5.77	6.71	7.49	106.6
California																		
NADP																		
Bishop	92	79	103	79	14	5.8	6.4	0.10	6.4	0.6	5.39	5.42	5.70	6.57	6.92	7.12	7.12	11.2
Hopland (Ukiah)	98	88	97	92	28	5.4	5.7	0.09	5.7	0.6	5.01	5.05	5.28	5.54	6.03	6.68	7.06	106.0
Colorado																		
NADP																		
Alamosa	90	100	93	85	34	5.2	5.9	0.13	6.0	0.7	4.56	4.91	5.42	6.03	6.50	6.95	7.39	22.6
Manitou	94	75	97	79	35	4.8	5.4	0.13	5.4	0.7	4.37	4.65	4.84	5.26	6.16	6.63	6.90	39.9
Pawnee	90	94	94	79	32	5.1	5.6	0.13	5.6	0.7	4.43	4.71	5.03	5.74	6.12	6.59	6.92	33.7
Rocky Mt. Nat Park	96	81	91	83	39	5.0	5.4	0.12	5.5	0.7	4.27	4.63	4.92	5.30	6.04	6.41	7.33	33.4
Delaware																		
MAP3s/PCN																		
Lewes	100	99	98	98	58	4.3	4.4	0.09	4.4	0.4	3.48	3.93	4.11	4.34	4.69	4.95	5.19	89.1
Florida																		
NADP																		
Bradford Forest	96	84	91	83	27	4.7	5.1	0.15	5.1	0.8	4.22	4.31	4.57	4.87	5.47	6.76	6.84	89.6
Georgia																		
NADP																		
Georgia Station	96	94	101	85	35	4.5	4.7	0.15	4.8	0.8	3.51	4.10	4.31	4.69	4.81	6.26	7.04	96.8
Hawaii																		
NADP																		
Mauna Loa	90	95	97	79	19	5.4	6.0	0.10	6.1	0.6	5.09	5.16	5.57	5.99	6.43	7.14	7.25	28.8
Illinois																		
NADP																		
Argonne	96	94	98	81	41	4.3	4.4	0.09	4.4	0.5	3.86	4.03	4.14	4.33	4.47	4.81	6.57	92.9
Bondville	98	98	97	87	43	4.2	4.5	0.12	4.5	0.6	3.80	3.99	4.15	4.33	4.67	5.42	6.56	100.3
Dixon Springs	100	86	93	85	40	4.3	4.4	0.08	4.4	0.4	3.82	3.97	4.20	4.33	4.52	4.67	6.24	113.0
Indiana																		
UAPSP																		
Fort Wayne	100	99	94	95	92	4.2	4.4	0.12	4.5	0.5	3.55	3.90	4.11	4.32	4.67	5.30	6.30	99.5
Rockport	100	100	101	100	90	4.1	4.1	0.07	4.1	0.3	3.60	3.78	3.96	4.10	4.30	4.48	4.98	93.9
Maine																		
NADP																		
Bridgton	100	94	99	92	46	4.4	4.5	0.12	4.6	0.6	3.83	4.00	4.20	4.39	4.71	5.47	6.58	108.1
Caribou	96	75	94	76	38	4.5	4.7	0.11	4.7	0.6	3.86	4.18	4.33	4.57	4.97	5.56	6.85	118.5
Greenville Station	97	78	92	90	46	4.6	4.6	0.07	4.7	0.4	4.06	4.27	4.41	4.63	4.88	5.16	5.68	113.2
Massachusetts																		
UAPSP																		
Turners Falls	100	100	97	100	103	4.2	4.2	0.08	4.2	0.4	3.55	3.78	3.90	4.11	4.40	4.69	5.42	101.8
Michigan																		
NADP																		
Kellogg	98	99	92	92	46	4.3	4.7	0.16	4.8	0.9	3.78	4.19	4.27	4.46	4.89	6.61	7.18	83.9

pH

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Wtd. Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	10%	25%	50%	75%	90%	Max	Total Precip cm
Minnesota																		
NADP																		
Lamberton	94	99	83	87	36	5.4	6.1	0.12	6.1	0.7	4.43	5.03	5.59	6.29	6.74	6.85	6.96	53.5
Marcell	100	97	90	88	43	5.1	5.4	0.13	5.5	0.7	4.36	4.56	4.90	5.25	6.16	6.43	7.24	77.7
Mississippi																		
NADP																		
Meridian	100	91	88	83	39	4.7	4.9	0.12	4.9	0.7	4.06	4.33	4.49	4.73	5.05	5.99	7.12	106.2
Nebraska																		
NADP																		
Mead	92	93	96	86	38	5.2	6.0	0.14	6.0	0.8	4.56	4.73	5.30	6.24	6.62	6.95	7.58	71.3
New Hampshire																		
NADP																		
Hubbard Brook	98	100	96	98	51	4.3	4.5	0.11	4.5	0.5	3.89	3.98	4.13	4.36	4.61	5.22	6.55	151.5
New York																		
NADP																		
Aurora	98	83	90	83	42	4.1	4.3	0.10	4.3	0.5	3.79	3.85	4.07	4.20	4.41	4.68	6.56	94.9
Chautauqua	98	99	94	96	47	4.2	4.2	0.08	4.3	0.3	3.16	3.94	4.05	4.24	4.37	4.66	5.35	102.8
Knobit	100	84	99	91	47	4.2	4.5	0.15	4.6	0.8	3.76	3.96	4.09	4.31	4.66	6.02	6.78	96.3
Stilwell Lake	98	92	86	90	44	4.2	4.2	0.09	4.3	0.4	3.66	3.83	3.99	4.15	4.40	4.87	5.47	117.6
MAP3s/PCN																		
Brookhaven	100	99	100	97	70	4.3	4.3	0.10	4.3	0.5	3.55	3.76	3.99	4.31	4.71	4.92	5.58	97.4
Ithaca	100	95	96	98	70	4.1	4.2	0.05	4.2	0.2	3.77	3.82	4.00	4.16	4.29	4.49	4.69	122.2
Whiteface	100	97	112	94	82	4.4	4.4	0.06	4.4	0.3	3.56	4.07	4.19	4.39	4.57	4.71	5.25	109.1
North Carolina																		
NADP																		
Clinton Station	100	99	94	94	48	4.5	4.7	0.15	4.8	0.8	3.91	4.08	4.28	4.49	4.83	6.16	7.36	113.0
Coweeta	98	88	94	90	44	4.5	4.6	0.12	4.7	0.6	3.53	4.08	4.27	4.56	4.86	5.37	6.60	132.9
Finley (A)	100	91	95	85	38	4.5	4.6	0.12	4.7	0.6	3.84	3.98	4.23	4.57	5.03	5.62	6.32	76.5
Lewiston	100	99	105	94	47	4.5	4.6	0.14	4.7	0.7	3.58	3.99	4.32	4.45	4.81	5.80	7.21	79.5
Piedmont Station	100	99	98	88	44	4.3	4.5	0.13	4.6	0.7	3.88	4.01	4.13	4.39	4.61	5.48	6.92	99.3
R Triangle Inst	98	95	97	90	44	4.6	4.6	0.15	4.7	0.8	3.70	4.09	4.26	4.45	4.82	6.01	7.58	90.7
R Triangle Park	94	100	87	92	47	4.5	4.4	0.10	4.5	0.5	3.76	3.96	4.13	4.41	4.66	5.10	6.33	97.5
UAPSP																		
Raleigh	100	99	92	95	60	4.4	4.3	0.09	4.3	0.4	3.66	3.79	4.04	4.26	4.60	4.89	5.08	81.3
Ohio																		
NADP																		
Caldwell	100	100	101	98	48	4.1	4.2	0.10	4.2	0.5	3.61	3.86	4.00	4.13	4.26	4.44	6.28	90.6
Delaware	98	100	111	90	42	4.2	4.4	0.12	4.4	0.6	3.73	4.04	4.07	4.26	4.40	4.80	6.89	78.8
Wooster	94	94	99	87	42	4.2	4.4	0.12	4.5	0.6	3.85	4.00	4.10	4.27	4.50	5.34	6.58	79.7
MAP3s/PCN																		
Oxford	100	98	103	95	70	4.3	4.3	0.07	4.3	0.3	3.59	3.88	4.13	4.26	4.47	4.70	5.10	76.0
UAPSP																		
Zanesville	100	100	87	99	105	4.1	4.1	0.07	4.1	0.3	3.62	3.75	3.92	4.10	4.27	4.44	4.90	118.5
Oregon																		
NADP																		
Alsea	100	86	100	85	38	5.5	5.6	0.08	5.7	0.5	4.72	5.17	5.36	5.55	5.76	6.50	7.10	179.8
H.J. Andrews	100	99	97	96	41	5.4	5.7	0.10	5.7	0.6	5.02	5.15	5.36	5.47	5.91	6.98	7.49	245.1
Schmidt Farm	95	94	98	92	39	5.6	5.8	0.09	5.9	0.6	4.95	5.29	5.49	5.73	6.19	6.63	7.51	86.7
Pennsylvania																		
NADP																		
Leading Ridge	98	97	89	88	44	4.2	4.2	0.08	4.2	0.4	3.70	3.92	3.99	4.14	4.33	4.62	5.98	96.3

pH

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Wtd. Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	10%	25%	50%	75%	90%	Max	Total Precip cm
MAP3s/PCN																		
Penn State	100	98	109	96	70	4.3	4.2	0.13	4.3	0.6	3.32	3.79	3.94	4.13	4.46	4.81	6.73	93.3
Tennessee																		
NADP																		
Elkmont	98	86	101	77	39	4.4	4.6	0.10	4.6	0.5	3.77	4.10	4.29	4.49	4.79	5.06	6.77	142.2
Walker Branch	98	93	103	88	46	4.3	4.4	0.11	4.4	0.5	3.88	4.00	4.11	4.29	4.45	4.76	6.68	95.3
MAP3s/PCN																		
Oak Ridge	99	98	109	98	63	4.3	4.2	0.06	4.2	0.2	3.71	3.95	4.07	4.23	4.40	4.59	4.81	95.1
Texas																		
NADP																		
K-Bar	98	100	99	88	31	5.4	5.8	0.13	5.8	0.7	4.62	4.73	5.29	5.72	6.09	6.90	7.86	42.5
Victoria	100	94	99	80	33	5.0	5.2	0.14	5.2	0.8	3.92	4.32	4.78	5.11	5.63	6.64	7.16	113.6
Virginia																		
MAP3s/PCN																		
Virginia	100	91	100	95	45	4.3	4.2	0.06	4.2	0.2	3.74	3.90	4.10	4.21	4.43	4.60	4.79	90.8
Washington																		
NADP																		
Olympic Nat. Park	98	82	91	85	41	5.4	5.4	0.07	5.5	0.4	4.57	5.03	5.24	5.40	5.62	6.02	6.64	366.4
West Virginia																		
NADP																		
Parsons	100	100	94	98	50	4.2	4.3	0.07	4.3	0.3	3.80	3.95	4.11	4.26	4.37	4.84	5.46	129.4
Alberta																		
CANSAP																		
Edson	100	97	80	92	11	5.6	6.3	0.11	6.4	0.7	5.30	5.32	6.00	6.50	6.90	7.30	7.40	42.8
Lethbridge	91	100	75	91	11	6.3	6.7	0.11	6.8	0.8	5.50	5.62	6.10	6.70	7.60	7.88	7.90	39.1
British Columbia																		
CANSAP																		
Port Hardy	92	100	84	92	11	5.1	5.1	0.05	5.1	0.3	4.70	4.74	5.00	5.00	5.20	5.70	5.80	188.2
Revelstoke	92	100	82	92	11	5.4	5.5	0.06	5.5	0.3	5.00	5.06	5.30	5.50	5.80	6.08	6.10	87.1
Terrace	100	100	92	100	12	5.1	5.1	0.11	5.2	0.6	4.50	4.56	4.83	5.00	5.30	6.45	6.90	110.6
Manitoba																		
CANSAP																		
Bissett	92	100	86	92	11	5.0	5.2	0.13	5.2	0.7	4.30	4.34	4.60	5.20	5.70	6.60	6.80	48.4
The Pas	100	100	78	100	12	6.0	6.1	0.07	6.2	0.4	5.30	5.45	5.90	6.05	6.57	6.74	6.80	52.7
New Brunswick																		
CANSAP																		
Acadia Fes	100	100	95	100	12	4.4	4.4	0.05	4.4	0.2	4.00	4.03	4.33	4.45	4.57	4.77	4.80	153.1
Newfoundland																		
CANSAP																		
Goose	91	100	77	91	11	5.2	5.3	0.09	5.4	0.5	4.80	4.82	5.00	5.20	5.60	6.34	6.40	115.5
Nova Scotia																		
CANSAP																		
Kejimkujik	100	100	103	100	12	4.5	4.5	0.05	4.5	0.2	4.20	4.20	4.25	4.55	4.70	4.91	5.00	157.3
Shelburne	100	100	91	100	12	4.5	4.5	0.04	4.5	0.2	4.20	4.23	4.33	4.55	4.60	4.84	4.90	152.7
Truro	100	100	80	100	12	4.4	4.5	0.09	4.6	0.4	4.10	4.10	4.18	4.50	4.67	5.41	5.50	130.7
APN																		
Kejimkujik	100	96	99	91	129	4.6	4.7	0.13	4.8	0.7	3.60	4.00	4.30	4.70	5.10	5.60	7.40	162.2
Ontario																		
CANSAP																		
Atikokan	100	100	91	100	12	4.9	4.9	0.06	4.9	0.3	4.60	4.60	4.63	4.85	5.17	5.47	5.50	58.9
Dorset	100	100	76	100	12	4.2	4.2	0.04	4.2	0.2	3.90	3.93	4.10	4.20	4.30	4.51	4.60	93.5

pH

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Wtd. Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	Percentiles 10%	Percentiles 25%	Percentiles 50%	Percentiles 75%	Percentiles 90%	Percentiles Max	Total Precip cm
ELA	100	100	87	100	12	4.9	5.3	0.15	5.4	0.8	4.50	4.50	4.55	5.35	6.07	6.71	6.80	68.3
Harrow	93	100	81	93	12	4.1	4.5	0.13	4.5	0.6	3.80	3.83	4.10	4.30	4.80	5.68	5.80	105.9
Kingston	100	100	77	100	12	4.0	4.2	0.09	4.2	0.4	3.80	3.83	3.90	4.05	4.38	5.08	5.20	98.3
Mount Forest	92	100	79	92	11	4.3	4.7	0.14	4.7	0.7	3.90	3.98	4.30	4.60	4.70	6.30	6.50	88.4
Peterborough	100	100	86	100	12	4.2	4.5	0.16	4.6	0.8	4.00	4.00	4.10	4.20	4.88	6.17	6.20	87.5
Simcoe	100	100	84	100	12	4.1	4.1	0.05	4.1	0.2	3.80	3.83	3.90	4.05	4.28	4.44	4.50	88.7
APN																		
Chalk River	100	93	93	91	102	4.3	4.5	0.13	4.6	0.6	3.60	4.00	4.10	4.40	4.70	5.47	6.80	90.8
ELA	100	97	100	93	82	5.0	5.3	0.13	5.3	0.7	4.00	4.50	4.80	5.15	5.90	6.37	7.20	58.4
Long Point	100	96	94	96	74	4.1	4.2	0.09	4.2	0.4	3.60	3.80	3.98	4.10	4.30	4.45	6.30	84.1
APIOS-C																		
Bear Island	100	88	79	83	10	4.4	4.5	0.08	4.5	0.4	4.07	4.08	4.13	4.32	4.84	5.06	5.08	79.5
Colchester	100	89	80	82	10	4.1	4.1	0.04	4.1	0.2	3.79	3.80	3.94	4.08	4.24	4.29	4.29	88.5
Dorion	100	94	90	90	11	4.5	4.6	0.07	4.6	0.4	4.30	4.30	4.35	4.52	4.59	5.43	5.57	64.2
Ramsey	100	92	87	82	10	4.4	4.4	0.06	4.4	0.3	4.12	4.12	4.18	4.37	4.53	5.07	5.12	75.2
Quebec																		
CANSAP																		
Maniwaki	100	100	81	100	12	4.2	4.2	0.03	4.2	0.1	4.00	4.03	4.20	4.20	4.38	4.40	4.40	88.8
Sept Isles	91	100	83	91	11	4.5	4.6	0.04	4.6	0.2	4.20	4.26	4.50	4.50	4.60	4.88	4.90	120.1
APN																		
Montmorency	100	97	94	88	141	4.6	4.8	0.13	4.9	0.7	3.70	4.20	4.40	4.70	5.15	5.98	6.80	130.2

Specific Conductance

Units: umho/cm

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Min	Percentiles 10%	25%	50%	75%	90%	Max	Total Precip cm
Alaska																	
NADP																	
Mt. Mckinley Park	96	96	96	77	39	7.1	0.94	11.9	15.9	1.5	2.3	3.6	6.0	11.4	36.9	74.9	41.9
Arizona																	
NADP																	
Organ Pipe Mon.	94	100	97	87	16	18.0	0.81	25.7	25.7	7.0	7.6	10.0	13.7	38.2	77.9	94.1	18.4
Arkansas																	
NADP																	
Fayetteville	98	95	99	89	42	15.5	0.58	19.0	17.5	4.5	7.9	11.3	14.8	22.3	29.0	101.0	106.6
California																	
NADP																	
Bishop	92	79	103	75	12	19.6	0.97	29.5	27.6	3.6	5.0	8.8	16.1	46.6	85.0	95.0	11.2
Hopland (Ukiah)	98	88	97	90	27	8.0	0.62	10.0	8.5	3.0	3.5	5.3	7.4	10.2	24.1	39.8	106.0
Colorado																	
NADP																	
Alamosa	90	99	93	83	33	19.1	0.81	28.4	37.4	4.7	6.7	10.9	15.2	30.1	54.1	208.6	22.6
Manitou	94	75	57	79	35	14.9	0.57	17.7	11.9	4.9	6.9	9.9	14.2	20.9	32.8	66.4	39.9
Pawnee	90	94	94	79	32	21.7	0.63	26.4	18.3	5.9	10.2	13.3	22.2	36.7	48.1	95.9	33.7
Rocky Mt. Nat Park	96	81	91	81	38	14.8	0.64	18.5	17.1	4.9	6.3	9.3	16.5	21.3	26.9	106.4	33.4
Delaware																	
MAP3s/PCN																	
Lewes	100	99	99	97	56	26.7	0.60	31.4	17.1	4.0	12.4	18.3	27.5	43.8	59.3	75.0	89.1
Florida																	
NADP																	
Bradford Forest	96	84	91	83	27	19.9	0.70	29.3	48.4	8.6	9.8	11.7	16.4	29.8	39.0	266.2	89.6
Georgia																	
NADP																	
Georgia Station	96	94	101	81	33	22.8	0.61	28.3	25.3	6.6	10.5	15.8	23.4	36.2	40.3	149.6	96.8
Hawaii																	
NADP																	
Mauna Loa	90	95	97	77	18	7.8	1.17	18.4	38.3	1.5	1.7	3.3	7.1	18.1	42.4	168.0	28.8
Illinois																	
NADP																	
Argonne	96	94	98	81	41	32.6	0.40	35.2	14.0	12.4	19.5	24.9	29.8	44.2	58.1	66.0	92.9
Bondville	98	98	97	85	42	31.7	0.50	35.5	16.9	12.0	14.5	22.5	31.4	52.0	62.5	78.4	100.3
Dixon Springs	100	86	93	83	39	29.5	0.42	32.4	16.1	14.9	17.5	22.2	27.5	36.9	68.7	81.9	113.0
MAP3s/PCN																	
Illinois	99	76	103	87	47	28.5	0.60	33.8	20.8	6.0	13.0	19.0	27.0	44.0	65.0	97.0	92.9
Indiana																	
UAPSP																	
Fort Wayne	100	99	94	95	92	27.3	0.61	33.0	22.4	7.3	12.0	17.1	28.1	39.8	65.2	116.0	99.5
Rockport	100	100	101	100	90	34.3	0.55	39.7	22.4	7.1	17.8	23.9	34.8	48.2	68.7	120.0	93.9
Maine																	
NADP																	
Bridgton	100	94	99	90	45	24.0	0.64	28.9	17.7	5.6	9.7	16.3	24.6	36.3	55.8	83.8	108.1
Caribou	96	75	94	76	38	19.1	0.61	22.7	14.2	5.2	7.1	11.9	21.7	28.9	36.7	76.1	118.5
Greenville Station	97	78	92	90	46	17.4	0.53	19.7	9.6	4.1	9.1	11.1	19.1	26.6	31.5	46.8	113.2
Massachusetts																	
UAPSP																	
Turners Falls	100	100	97	100	102	32.4	0.72	40.1	23.8	3.3	11.3	19.8	39.6	55.2	74.7	123.0	101.8

Specific Conductance

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Min	10%	25%	50%	75%	90%	Max	Total Precip cm
					Units: umho/cm					Percentiles							
Michigan																	
NADP																	
Kellogg	98	99	92	83	41	31.1	0.45	35.1	22.6	12.8	18.7	24.3	29.3	37.0	53.8	138.9	83.9
Minnesota																	
NADP																	
Lamberton	94	98	83	85	35	17.6	0.53	20.0	10.4	6.4	8.2	11.6	16.6	27.5	37.8	47.4	53.5
Marcell	100	97	90	87	42	13.4	0.59	16.3	13.1	5.3	6.0	8.9	13.5	18.6	24.7	76.1	77.7
Mississippi																	
NADP																	
Meridian	100	91	88	81	38	21.2	0.66	26.7	21.7	5.4	10.8	13.7	18.8	29.2	52.8	97.9	106.2
Nebraska																	
NADP																	
Mead	92	93	96	82	36	19.0	0.71	24.9	23.0	4.8	8.9	11.4	17.9	31.2	43.0	119.8	71.3
New Hampshire																	
NADP																	
Hubbard Brook	98	100	96	98	51	25.2	0.66	30.9	20.3	4.8	10.6	15.8	27.5	41.0	55.6	106.5	151.5
New York																	
NADP																	
Aurora	98	83	90	83	42	37.6	0.50	42.1	19.2	11.1	17.5	25.7	40.4	57.9	71.4	82.4	94.9
Chautauqua	98	99	94	96	47	36.3	0.57	46.0	59.1	13.2	19.1	26.1	33.9	51.9	63.9	427.1	102.8
Knobit	100	84	99	91	47	29.1	0.57	33.6	17.0	8.6	12.8	19.4	33.0	45.1	55.4	77.0	96.3
Stilwell Lake	98	92	86	90	44	36.9	0.63	43.3	21.8	4.4	14.5	27.8	41.0	56.5	74.3	92.4	117.6
MAP3s/PCN																	
Brookhaven	100	99	100	97	69	30.5	0.78	40.1	29.9	3.8	11.0	18.0	33.0	54.0	90.0	140.0	97.4
Ithaca	100	97	95	98	70	36.0	0.48	40.1	18.8	10.0	19.0	26.0	35.5	51.0	68.0	94.0	122.2
Whiteface	100	97	112	94	81	22.7	0.61	27.2	18.5	3.4	11.0	14.5	23.0	36.0	47.6	130.0	109.1
North Carolina																	
NADP																	
Clinton Station	100	99	94	90	46	29.2	0.74	37.3	28.1	2.6	11.1	19.7	28.8	45.0	78.0	154.4	113.0
Coweeta	98	88	94	90	44	22.9	0.66	28.6	21.7	6.1	10.0	13.9	22.0	36.2	55.8	122.1	132.9
Finley (A)	100	91	95	77	34	23.3	0.71	29.4	22.0	4.8	7.8	14.3	26.3	35.0	60.2	117.0	76.5
Lewiston	100	99	105	88	44	25.4	0.75	35.2	42.7	3.2	10.9	17.0	24.3	33.0	76.8	275.7	79.5
Piedmont Station	100	99	98	81	40	29.9	0.54	34.8	22.9	8.1	15.4	19.1	30.1	41.3	62.0	143.9	99.3
R Triangle Inst	98	95	97	88	43	27.7	0.64	33.6	21.7	5.5	12.2	17.4	27.8	41.5	69.7	96.1	90.7
R Triangle Park	94	100	87	92	47	29.5	0.70	37.2	26.7	5.4	12.6	18.3	28.4	49.8	76.1	118.1	97.5
UAPSP																	
Raleigh	100	98	92	95	59	22.4	0.82	30.0	22.5	2.6	6.3	12.5	23.1	36.1	70.1	94.3	81.3
Ohio																	
NADP																	
Caldwell	100	100	101	96	47	44.6	0.41	48.7	22.6	22.8	27.1	33.9	42.1	56.0	83.0	114.7	90.6
Delaware	98	100	111	92	43	35.6	0.46	40.4	27.5	15.7	19.3	28.7	33.2	48.2	54.0	181.4	78.8
Wooster	94	94	99	87	42	34.1	0.45	37.5	17.1	13.2	18.0	26.8	35.2	46.0	59.5	95.9	79.7
MAP3s/PCN																	
Oxford	100	97	103	94	65	27.9	0.64	33.1	19.4	4.0	13.6	21.5	30.0	39.5	56.0	110.0	76.0
UAPSP																	
Zanesville	100	100	87	99	104	38.1	0.53	43.5	22.7	8.9	19.5	26.0	37.5	54.6	82.0	106.0	118.5
Oregon																	
NADP																	
Alsea	100	86	100	85	38	12.3	0.80	17.4	18.2	2.7	4.3	7.5	11.9	17.0	54.0	78.4	179.8
H.J. Andrews	100	99	97	90	38	6.3	0.57	8.0	9.9	2.1	3.4	4.5	6.1	7.9	9.4	64.9	245.1
Schmidt Farm	95	94	98	88	37	8.4	0.53	9.6	5.5	2.7	3.8	6.4	7.8	11.0	19.7	25.3	86.7

Specific Conductance

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Units: umho/cm Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	10%	25%	50%	75%	90%	Max	Total Precip cm
Pennsylvania																	
NADP																	
Leading Ridge	98	97	89	88	44	38.3	0.54	43.3	20.0	6.4	18.3	29.0	39.2	54.0	73.8	92.0	96.3
MAP3s/PCN																	
Penn State	100	99	109	95	68	35.9	0.78	46.8	36.1	3.0	13.8	21.3	41.0	64.8	82.2	240.0	93.3
Tennessee																	
NADP																	
Elkmont	98	86	101	76	38	21.0	0.64	25.6	17.9	5.6	9.1	12.8	21.8	31.8	48.1	93.7	142.2
Walker Branch	98	93	103	85	44	31.8	0.44	34.7	14.1	11.3	16.8	23.5	33.3	44.4	56.1	69.0	95.3
MAP3s/PCN																	
Oak Ridge	99	98	109	98	63	31.5	0.51	35.6	17.9	8.9	15.0	23.0	31.0	46.0	56.2	100.0	95.1
Texas																	
NADP																	
K-Bar	98	100	99	84	29	13.2	0.97	27.2	61.1	2.5	3.6	7.9	12.2	21.6	41.4	327.6	42.5
Victoria	100	94	99	80	33	18.5	0.92	28.5	30.0	5.1	5.4	8.7	18.7	34.2	88.7	122.2	113.6
Virginia																	
MAP3s/PCN																	
Virginia	100	95	100	95	46	32.0	0.54	36.4	18.1	7.9	14.7	22.0	33.5	43.5	69.5	79.0	90.8
Washington																	
NADP																	
Olympic Nat. Park	98	82	91	85	41	8.1	0.53	9.3	5.3	2.3	4.0	6.4	8.8	10.1	15.4	29.6	366.4
West Virginia																	
NADP																	
Parsons	100	100	94	98	50	33.6	0.46	37.1	17.4	9.3	17.5	28.1	34.3	43.3	67.5	100.1	129.4
Alberta																	
CANSAP																	
Edson	100	100	80	100	12	14.3	0.48	15.9	7.7	7.0	7.6	9.2	12.9	23.9	28.2	28.4	42.8
Lethbridge	91	100	75	91	11	35.4	0.85	47.3	34.4	10.4	11.0	13.4	44.3	66.8	105.2	106.0	39.1
British Columbia																	
CANSAP																	
Port Hardy	92	100	84	92	11	14.4	0.42	15.6	6.8	7.6	7.8	9.7	15.6	17.0	29.3	30.6	188.2
Revelstoke	92	94	82	83	10	6.4	0.22	6.6	1.5	4.8	4.8	5.3	6.3	7.6	9.7	9.9	87.1
Terrace	100	100	92	100	12	6.1	0.48	6.8	3.7	3.4	3.4	3.9	6.0	8.3	14.3	16.6	110.6
Manitoba																	
CANSAP																	
Bissett	92	100	86	92	11	8.9	0.73	11.7	10.1	3.9	4.0	4.7	8.6	14.5	32.1	32.8	48.4
The Pas	100	100	78	100	12	13.0	0.50	14.8	9.2	6.7	7.1	9.1	12.3	16.[illegible]	35.0	40.0	52.7
New Brunswick																	
CANSAP																	
Acadia Fes	100	100	95	100	12	20.1	0.44	22.1	10.6	10.4	10.9	14.3	19.1	24.6	43.7	45.4	153.1
Newfoundland																	
CANSAP																	
Goose	91	100	77	91	11	7.6	0.30	7.9	2.4	4.4	4.7	6.3	7.7	9.0	12.4	12.8	115.5
Nova Scotia																	
CANSAP																	
Kejimkujik	100	100	103	100	12	19.8	0.41	21.3	8.8	11.3	11.6	13.0	19.1	29.1	36.0	36.5	157.3
Shelburne	100	100	91	100	12	25.5	0.40	27.1	8.5	8.8	12.0	20.8	28.4	33.0	38.8	39.8	152.7
Truro	100	100	80	100	12	25.5	0.35	27.1	10.8	16.9	17.1	19.5	23.4	34.2	49.1	52.6	130.7
Ontario																	
CANSAP																	
Atikokan	100	100	91	100	12	14.0	0.46	15.4	7.6	6.1	7.2	10.9	12.6	18.6	30.2	30.2	58.9

Specific Conductance

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Min	10%	25%	50%	75%	90%	Max	Total Precip cm
Dorset	100	100	76	100	12	38.0	0.35	40.1	12.9	20.1	20.7	29.3	40.1	52.6	57.6	58.3	93.5
ELA	100	100	87	100	12	12.3	0.48	13.7	6.6	6.4	6.4	8.1	12.8	17.6	25.7	28.7	68.3
Kingston	100	100	77	100	12	49.2	0.26	50.7	12.5	28.7	31.6	42.4	49.3	60.6	70.1	70.5	98.3
Mount Forest	92	100	79	92	11	31.9	0.36	33.8	12.9	18.9	19.3	22.3	33.5	39.0	60.1	65.0	88.4
Peterborough	100	100	86	100	12	33.6	0.34	35.4	11.6	18.1	19.8	25.9	33.1	47.2	53.3	54.1	87.5
Simcoe	100	100	84	100	12	50.5	0.26	52.1	14.0	34.6	35.6	40.8	50.8	59.1	77.8	80.0	88.7
APIOS-D																	
Balsam Lake	100	85	93	87	67	26.0	0.64	31.3	19.3	5.2	11.1	16.8	27.2	40.0	58.6	97.0	73.6
Dorset	100	90	91	84	87	27.4	0.69	35.0	29.1	5.5	11.8	18.6	25.8	43.0	70.0	195.0	92.8
Graham Lake	100	81	90	83	79	25.2	0.73	31.6	19.5	3.4	9.6	15.6	26.2	43.8	59.5	88.5	103.0
Longwoods	100	87	91	87	75	27.3	0.70	34.1	23.6	3.9	11.5	17.8	28.9	42.8	58.7	120.0	89.7
Melborne	100	87	92	85	65	27.9	0.66	33.3	17.7	3.9	10.0	19.7	31.8	45.0	57.4	90.0	80.5
Nithgrove	93	88	87	80	80	27.7	0.66	34.5	24.7	7.2	11.8	15.7	27.3	43.1	69.6	129.5	88.1
Railton	100	88	94	86	67	29.3	0.60	33.9	16.5	4.7	14.0	20.8	34.0	46.5	56.1	84.0	100.9
Raven Lake	91	89	101	77	71	27.5	0.62	32.6	18.8	5.3	11.8	20.7	29.1	40.6	62.0	84.5	78.9
Whitman Creek	99	78	93	87	76	26.3	0.76	34.2	25.8	4.7	9.0	15.8	29.6	43.7	68.6	156.0	103.6
APIOS-C																	
Bear Island	100	93	78	84	10	22.7	0.36	23.9	7.5	11.6	11.8	17.6	24.6	31.3	32.9	33.0	79.5
Colchester	100	98	81	91	11	44.6	0.38	47.7	18.5	24.5	25.3	34.0	44.3	65.0	80.0	82.0	88.5
Dalhousie Mills	100	85	81	91	11	29.6	0.45	32.2	12.8	10.7	13.1	23.0	28.0	45.2	51.3	52.5	98.8
Dorion	100	94	88	92	11	18.0	0.31	18.8	6.0	11.7	12.0	13.2	18.8	23.0	30.2	31.5	64.2
Port Stanley	100	82	80	84	10	38.8	0.40	41.3	13.6	15.4	16.6	31.3	43.2	50.1	61.5	62.5	78.9
Ramsey	100	98	86	92	11	22.3	0.39	23.8	8.4	11.0	11.3	15.8	23.2	31.8	37.0	38.3	75.2
Quebec																	
CANSAP																	
Maniwaki	100	100	81	100	12	33.7	0.35	35.6	12.3	16.9	18.2	28.8	34.7	40.5	58.7	61.2	88.8
Sept Isles	91	100	83	91	11	19.5	0.30	20.4	6.4	11.1	12.0	17.8	18.7	24.2	33.9	36.2	120.1

Units: umho/cm

1981 Annual Summary

H+ (derived from pH)

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	H+ Dep mg/m2
Alaska																				
NADP																				
Mt. Mckinley Park	96	97	96	81	41		.003	.001	1.29	.002	.002	.000	.000	.000	.001	.003	.005	.008	41.9	1.
Arizona																				
NADP																				
Organ Pipe Mon.	94	100	97	88	17		.011	.002	1.87	.007	.015	.000	.000	.001	.001	.006	.037	.054	18.4	2.
Arkansas																				
NADP																				
Fayetteville	98	95	99	89	42		.011	.004	1.72	.011	.015	.000	.000	.002	.008	.016	.023	.091	106.6	11.
California																				
NADP																				
Bishop	92	79	103	79	14		.002	.000	1.45	.001	.001	.000	.000	.000	.000	.002	.004	.004	11.2	0.
Hopland (Ukiah)	98	88	97	92	28		.004	.002	1.27	.003	.003	.000	.000	.001	.003	.005	.009	.010	106.0	4.
Colorado																				
NADP																				
Alamosa	90	100	93	85	34		.006	.001	1.72	.004	.006	.000	.000	.000	.001	.004	.012	.028	22.6	1.
Manitou	94	75	97	79	35		.016	.004	1.71	.009	.010	.000	.000	.001	.005	.014	.023	.043	39.9	6.
Pawnee	90	94	94	79	32		.008	.002	1.64	.007	.009	.000	.000	.001	.002	.009	.019	.037	33.7	3.
Rocky Mt. Nat Park	96	81	91	83	39		.010	.003	1.59	.008	.011	.000	.000	.001	.005	.012	.023	.054	33.4	3.
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	98	58		.046	.041	0.87	.058	.054	.006	.011	.020	.046	.079	.118	.331	89.1	41.
Florida																				
NADP																				
Bradford Forest	96	84	91	83	27		.019	.007	1.94	.018	.018	.000	.000	.003	.013	.027	.049	.060	89.6	17.
Georgia																				
NADP																				
Georgia Station	96	94	101	85	35		.031	.016	1.79	.039	.054	.000	.001	.015	.020	.049	.080	.309	96.8	30.
Hawaii																				
NADP																				
Mauna Loa	90	95	97	79	19		.004	.001	1.46	.002	.003	.000	.000	.000	.001	.003	.007	.008	28.8	1.
Illinois																				
NADP																				
Argonne	96	94	98	81	41		.056	.039	1.07	.053	.031	.000	.016	.034	.047	.073	.092	.138	92.9	52.
Bondville	98	98	97	87	43		.056	.032	1.34	.053	.038	.000	.005	.021	.047	.071	.102	.158	100.3	57.
Dixon Springs	100	86	93	85	40		.045	.041	0.89	.053	.033	.001	.021	.030	.047	.064	.107	.151	113.0	51.
Indiana																				
UAPSP																				
Fort Wayne	100	99	94	95	92		.062	.035	1.26	.059	.053	.001	.005	.021	.048	.079	.126	.282	99.5	62.
Rockport	100	100	101	100	90		.081	.073	0.63	.088	.052	.010	.033	.050	.079	.110	.165	.251	93.9	76.
Maine																				
NADP																				
Bridgton	100	94	99	92	46		.043	.027	1.39	.045	.034	.000	.003	.020	.041	.063	.100	.148	108.1	46.
Caribou	96	75	94	76	38		.032	.019	1.32	.032	.028	.000	.003	.011	.027	.047	.066	.138	118.5	38.
Greenville Station	97	78	92	90	46		.026	.022	0.81	.029	.019	.002	.007	.013	.024	.039	.054	.087	113.2	29.
Massachusetts																				
UAPSP																				
Turners Falls	100	100	97	100	103		.067	.067	0.83	.087	.057	.004	.020	.040	.078	.126	.166	.282	101.8	68.
Michigan																				
NADP																				
Kellogg	98	99	92	92	46		.046	.016	2.03	.037	.030	.000	.000	.014	.035	.054	.065	.166	83.9	38.

1981 Annual Summary

H+ (derived from pH)

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Min	10%	25%	50%	75%	90%	Max	Total Precip cm	H+ Dep mg/m2
Minnesota																				
NADP																				
Lamberton	94	99	83	87	36		.004	.001	1.60	.003	.007	.000	.000	.000	.001	.003	.009	.037	53.5	2.
Marcell	100	97	90	88	43		.008	.003	1.65	.009	.011	.000	.000	.001	.006	.013	.028	.044	77.7	6.
Mississippi																				
NADP																				
Meridian	100	91	88	83	39		.019	.013	1.53	.023	.019	.000	.001	.009	.019	.032	.047	.087	106.2	20.
Nebraska																				
NADP																				
Mead	92	93	96	86	38		.007	.001	1.88	.004	.007	.000	.000	.000	.001	.005	.018	.028	71.3	5.
New Hampshire																				
NADP																				
Hubbard Brook	98	100	96	98	51		.046	.033	1.22	.050	.035	.000	.006	.025	.044	.074	.105	.129	151.5	70.
New York																				
NADP																				
Aurora	98	83	90	83	42		.078	.051	1.08	.069	.042	.000	.021	.039	.063	.086	.143	.162	94.9	74.
Chautauqua	98	99	94	96	47		.067	.056	0.79	.077	.098	.004	.022	.043	.058	.089	.116	.592	102.8	69.
Knobit	100	84	99	91	47		.057	.027	1.75	.054	.042	.000	.001	.022	.049	.081	.110	.174	96.3	55.
Stilwell Lake	98	92	86	90	44		.061	.055	0.92	.075	.050	.003	.014	.040	.071	.102	.150	.219	117.6	72.
MAP3s/PCN																				
Brookhaven	100	99	100	97	70		.045	.045	1.04	.070	.062	.003	.012	.019	.050	.102	.173	.282	97.4	44.
Ithaca	100	95	96	98	70		.072	.069	0.52	.079	.039	.020	.033	.052	.070	.099	.151	.170	122.2	88.
Whiteface	100	97	112	94	82		.036	.041	0.64	.050	.038	.006	.019	.027	.041	.065	.086	.275	109.1	40.
North Carolina																				
NADP																				
Clinton Station	100	99	94	94	48		.031	.017	1.85	.038	.030	.000	.001	.015	.032	.052	.084	.123	113.0	35.
Coweeta	98	88	94	90	44		.029	.021	1.40	.039	.047	.000	.005	.014	.028	.054	.084	.295	132.9	39.
Finley (A)	100	91	95	85	38		.029	.022	1.36	.040	.037	.000	.002	.009	.027	.058	.105	.145	76.5	22.
Lewiston	100	99	105	94	47		.029	.021	1.70	.043	.048	.000	.002	.015	.035	.048	.102	.263	79.5	23.
Piedmont Station	100	99	98	88	44		.048	.028	1.59	.048	.033	.000	.004	.025	.041	.075	.098	.132	99.3	48.
R Triangle Inst	98	95	97	90	44		.024	.021	1.79	.042	.038	.000	.001	.015	.036	.055	.081	.200	90.7	22.
R Triangle Park	94	100	87	92	47		.032	.035	1.11	.052	.041	.000	.008	.022	.039	.074	.111	.174	97.5	31.
UAPSP																				
Raleigh	100	99	92	95	60		.042	.050	0.87	.070	.057	.008	.013	.025	.055	.092	.162	.219	81.3	34.
Ohio																				
NADP																				
Caldwell	100	100	101	98	48		.082	.063	1.08	.082	.046	.001	.036	.055	.074	.099	.138	.245	90.6	74.
Delaware	98	100	111	90	42		.059	.039	1.45	.059	.035	.000	.016	.039	.056	.086	.091	.186	78.8	47.
Wooster	94	94	99	87	42		.060	.035	1.38	.055	.035	.000	.005	.031	.054	.080	.101	.141	79.7	48.
MAP3s/PCN																				
Oxford	100	98	103	95	70		.054	.052	0.71	.066	.049	.008	.020	.034	.056	.075	.132	.257	76.0	41.
UAPSP																				
Zanesville	100	100	87	99	105		.076	.079	0.62	.093	.054	.013	.036	.054	.079	.120	.178	.240	118.5	90.
Oregon																				
NADP																				
Alsea	100	86	100	85	38		.003	.002	1.13	.003	.003	.000	.000	.002	.003	.004	.007	.019	179.8	6.
H.J. Andrews	100	99	97	96	41		.004	.002	1.42	.003	.002	.000	.000	.001	.003	.004	.007	.010	245.1	9.
Schmidt Farm	95	94	98	92	39		.003	.001	1.28	.002	.002	.000	.000	.001	.002	.003	.005	.011	86.7	2.

H+ (derived from pH)

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	H+ Dep mg/m2
Pennsylvania																				
NADP																				
Leading Ridge	98	97	89	88	44		.070	.061	0.84	.076	.041	.001	.024	.047	.072	.103	.122	.200	96.3	68.
MAP3a/PCN																				
Penn State	100	98	109	96	70		.056	.053	1.39	.088	.080	.000	.016	.035	.074	.116	.162	.479	93.3	52.
Tennessee																				
NADP																				
Elkmont	98	86	101	77	39		.036	.027	1.13	.039	.031	.000	.009	.016	.032	.051	.079	.170	142.2	52.
Walker Branch	98	93	103	88	46		.053	.040	1.26	.056	.031	.000	.018	.035	.052	.079	.099	.132	95.3	51.
MAP3a/PCN																				
Oak Ridge	99	98	109	98	63		.053	.057	0.55	.066	.036	.015	.026	.040	.059	.085	.111	.195	95.1	50.
Texas																				
NADP																				
K-Bar	98	100	99	88	31		.004	.002	1.72	.004	.007	.000	.000	.001	.002	.005	.019	.024	62.5	2.
Victoria	100	94	99	80	33		.011	.006	1.79	.016	.025	.000	.000	.002	.008	.017	.049	.120	113.6	13.
Virginia																				
MAP3a/PCN																				
Virginia	100	91	100	95	45		.055	.057	0.57	.067	.037	.016	.025	.037	.062	.079	.127	.182	90.8	50.
Washington																				
NADP																				
Olympic Nat. Park	98	82	91	85	41		.004	.004	0.88	.005	.004	.000	.001	.002	.004	.006	.009	.027	366.4	15.
West Virginia																				
NADP																				
Parsons	100	100	94	98	50		.067	.050	0.76	.061	.035	.003	.015	.043	.056	.077	.111	.158	129.4	86.
Alberta																				
CANSAP																				
Edson	100	97	80	92	11		.002	.000	1.53	.001	.002	.000	.000	.000	.000	.001	.005	.005	42.8	1.
Lethbridge	91	100	75	91	11		.001	.000	1.76	.001	.001	.000	.000	.000	.000	.001	.003	.003	39.1	0.
British Columbia																				
CANSAP																				
Port Hardy	92	100	84	92	11		.008	.008	0.64	.009	.005	.002	.002	.006	.010	.010	.018	.020	188.2	16.
Revelstoke	92	100	82	92	11		.004	.003	0.75	.004	.003	.001	.001	.002	.003	.005	.009	.010	87.1	4.
Terrace	100	100	92	100	12		.008	.007	1.41	.011	.009	.000	.001	.005	.010	.015	.028	.032	110.6	9.
Manitoba																				
CANSAP																				
Bissett	92	100	86	92	11		.009	.006	1.65	.014	.016	.000	.000	.002	.006	.025	.046	.050	48.4	4.
The Pas	100	100	78	100	12		.001	.001	0.99	.001	.001	.000	.000	.000	.001	.001	.004	.005	52.7	1.
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	95	100	12		.043	.037	0.52	.042	.025	.016	.017	.027	.036	.048	.094	.100	153.1	67.
Newfoundland																				
CANSAP																				
Goose	91	100	77	91	11		.006	.004	1.16	.007	.005	.000	.000	.003	.006	.010	.015	.016	115.5	7.
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	103	100	12		.031	.030	0.57	.034	.019	.010	.013	.020	.028	.057	.063	.063	157.3	49.
Shelburne	100	100	91	100	12		.032	.030	0.45	.033	.015	.013	.015	.025	.028	.048	.059	.063	152.7	48.
Truro	100	100	80	100	12		.037	.028	0.98	.038	.027	.003	.004	.021	.032	.070	.079	.079	130.7	48.
APN																				
Kejimkujik	100	96	99	91	129		.025	.017	1.50	.036	.044	.000	.003	.008	.020	.050	.100	.251	162.2	41.

1981 Annual Summary

H+ (derived from pH)

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Min	10%	25%	50%	75%	90%	Max	Total Precip cm	H+ Dep mg/m2
Ontario																				
CANSAP																				
Atikokan	100	100	91	100	12		.013	.012	0.73	.015	.008	.003	.003	.007	.014	.024	.025	.025	58.9	7.
Dorset	100	100	76	100	12		.069	.063	0.40	.068	.026	.025	.033	.050	.063	.079	.118	.126	93.5	65.
ELA	100	100	87	100	12		.012	.004	1.88	.012	.013	.000	.000	.001	.006	.029	.032	.032	68.3	8.
Harrow	93	100	81	93	12		.074	.031	1.40	.056	.049	.002	.002	.016	.051	.079	.149	.158	105.9	79.
Kingston	100	100	77	100	12		.091	.062	0.96	.083	.048	.006	.009	.042	.090	.126	.149	.158	98.3	89.
Mount Forest	92	100	79	92	11		.048	.019	1.64	.036	.034	.000	.001	.020	.025	.050	.111	.126	88.4	42.
Peterborough	100	100	86	100	12		.058	.026	1.80	.052	.036	.001	.001	.015	.063	.079	.100	.100	87.5	51.
Simcoe	100	100	84	100	12		.088	.081	0.49	.089	.039	.032	.037	.053	.090	.126	.149	.158	88.7	78.
APN																				
Chalk River	100	93	93	91	102		.049	.028	1.48	.052	.049	.000	.003	.020	.040	.079	.100	.251	90.8	45.
ELA	100	97	100	93	82		.010	.005	1.58	.011	.015	.000	.000	.001	.007	.016	.032	.100	58.4	6.
Long Point	100	96	94	96	74		.083	.066	0.99	.088	.053	.001	.036	.050	.079	.106	.158	.251	84.1	70.
APIOS-C																				
Bear Island	100	88	79	83	10		.043	.034	0.87	.045	.030	.008	.009	.014	.049	.074	.084	.085	79.5	34.
Colchester	100	89	80	82	10		.086	.086	0.40	.092	.037	.051	.051	.058	.084	.116	.160	.162	88.5	76.
Dorion	100	94	90	90	11		.030	.025	0.83	.031	.014	.003	.005	.026	.030	.045	.050	.050	64.2	19.
Ramsey	100	92	87	82	10		.041	.039	0.68	.046	.022	.008	.009	.030	.043	.066	.075	.076	75.2	31.
Quebec																				
CANSAP																				
Maniwaki	100	100	81	100	12		.059	.057	0.29	.060	.018	.040	.040	.042	.063	.063	.094	.100	88.8	52.
Sept Isles	91	100	83	91	11		.028	.027	0.42	.030	.013	.013	.013	.025	.032	.032	.057	.063	120.1	34.
APN																				
Montmorency	100	97	94	88	141		.027	.014	1.52	.029	.034	.000	.001	.007	.020	.040	.063	.200	130.2	36.

Sulfate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration						Percentiles mg/1							Total Precip cm	SO4 Dep g/m2
							Wtd Mean mg/1	Geometric Mean mg/1	Geometric SD	Arithmetic Mean mg/1	Arithmetic SD mg/1	Min	10%	25%	50%	75%	90%	Max		
Arizona																				
NADP																				
Organ Pipe Mon.	94	100	97	87	16		2.14	1.79	1.17	3.57	4.81	0.35	0.36	0.75	1.55	4.88	14.64	15.75	18.4	.39
Arkansas																				
NADP																				
Fayetteville	98	95	99	85	40		1.35	1.51	0.65	1.82	1.09	0.22	0.59	1.04	1.69	2.36	3.39	5.32	106.6	1.44
California																				
NADP																				
Bishop	92	79	103	75	12		.98	1.78	1.16	3.32	4.14	0.38	0.38	0.68	1.69	4.60	12.41	13.96	11.2	.11
Hopland (Ukiah)	98	88	97	88	26	1	.35	.46	0.78	.71	1.28	0.10	0.27	0.32	0.42	0.61	0.81	6.91	106.0	.37
Colorado																				
NADP																				
Alamosa	90	99	93	79	31		1.81	2.29	0.91	3.47	3.69	0.58	0.66	1.07	2.15	3.86	8.43	16.45	22.6	.41
Pawnee	90	94	94	77	31		2.17	2.78	0.82	3.95	3.94	0.86	0.94	1.59	2.60	5.17	10.09	18.35	33.7	.73
Rocky Mt. Nat Park	96	81	91	77	36		1.58	1.47	0.79	1.88	1.16	0.26	0.43	0.78	1.96	2.70	3.55	4.69	33.4	.53
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	98	59		2.64	2.36	0.70	2.93	1.89	0.28	0.90	1.54	2.30	4.22	6.05	8.26	89.1	2.35
Florida																				
NADP																				
Bradford Forest	96	84	91	83	27		1.86	2.11	0.72	2.88	3.32	0.74	0.93	1.16	2.04	3.04	5.05	17.96	89.6	1.66
Georgia																				
NADP																				
Georgia Station	96	94	101	81	33		2.09	2.38	0.73	3.06	2.60	0.22	1.07	1.42	2.73	3.64	5.79	14.84	96.8	2.03
Illinois																				
NADP																				
Argonne	96	94	98	81	41		3.45	3.57	0.48	4.00	2.07	0.83	1.89	2.71	3.62	4.85	6.16	12.72	92.9	3.20
Bondville	98	98	97	85	42		3.36	3.50	0.58	4.17	2.86	0.94	1.95	2.37	3.07	5.39	8.79	15.20	100.3	3.37
Dixon Springs	100	86	93	81	38		2.83	3.16	0.42	3.46	1.64	1.46	1.87	2.38	3.14	3.62	6.58	8.24	113.0	3.19
MAP3s/PCN																				
Illinois	99	77	103	88	50		3.36	3.22	0.64	3.93	2.61	0.65	1.45	1.82	3.31	5.59	8.01	13.44	92.9	3.12
Indiana																				
UAPSP																				
Fort Wayne	100	98	94	94	87		3.18	2.82	0.74	3.62	2.66	0.27	1.08	1.91	2.88	4.54	7.96	12.71	99.5	3.16
Rockport	100	100	101	100	89		3.46	3.11	0.62	3.72	2.36	0.39	1.47	2.15	3.30	4.32	6.84	12.66	93.9	3.25
Maine																				
NADP																				
Bridgton	100	94	99	88	44		2.08	1.84	0.74	2.37	1.72	0.51	0.61	0.96	1.80	3.29	5.01	7.49	108.1	2.24
Caribou	96	75	94	76	38		1.94	1.90	0.76	2.58	2.70	0.31	0.64	1.13	1.96	2.80	4.26	15.97	118.5	2.30
Greenville Station	97	78	92	90	46		1.54	1.58	0.62	1.89	1.15	0.53	0.66	0.82	1.64	2.76	3.52	5.18	113.2	1.74
Massachusetts																				
UAPSP																				
Turners Falls	100	100	98	100	102		2.32	2.04	0.91	2.85	2.11	0.12	0.56	1.11	2.46	4.34	5.43	10.03	101.8	2.36
Michigan																				
NADP																				
Kellogg	98	97	94	77	38		3.28	3.19	0.56	3.75	2.56	0.87	1.30	2.45	3.29	4.41	5.65	14.00	83.9	2.75
Minnesota																				
NADP																				
Lamberton	94	98	83	85	35		2.02	2.05	0.62	2.45	1.55	0.61	0.78	1.47	2.11	3.10	4.85	7.88	53.5	1.08
Marcell	100	97	90	85	41		1.30	1.39	0.75	2.00	2.61	0.52	0.55	0.77	1.26	2.05	2.72	15.00	77.7	1.01

Sulfate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	SO4 Dep g/m2
Mississippi																				
NADP																				
Meridian	100	91	88	77	36		1.50	2.00	0.83	3.11	4.89	0.53	0.68	1.13	1.72	3.19	5.92	29.94	106.2	1.60
Nebraska																				
NADP																				
Mead	92	93	96	79	34	1	1.73	2.20	0.77	2.99	2.95	0.67	0.79	1.37	2.01	3.43	6.06	16.35	71.3	1.24
New Hampshire																				
NADP																				
Hubbard Brook	98	100	96	96	50		2.33	1.95	0.86	2.79	2.71	0.41	0.56	1.00	2.16	3.80	5.68	15.88	151.5	3.53
New York																				
NADP																				
Aurora	98	83	90	81	41		4.01	3.58	0.62	4.24	2.41	0.94	1.21	2.40	3.81	5.50	8.11	11.57	94.9	3.81
Chautauqua	98	99	94	96	47		3.71	3.55	0.63	4.84	7.82	1.06	1.63	2.55	3.36	5.37	6.71	56.10	102.8	3.81
Knobit	100	84	99	91	47		2.93	2.55	0.67	3.09	1.69	0.71	0.85	1.23	3.31	4.43	5.35	6.88	96.3	2.82
Stilwell Lake	98	92	86	90	44		2.86	3.11	0.74	3.86	2.30	0.38	1.09	1.93	3.67	5.14	7.23	10.18	117.6	3.36
MAP3s/PCN																				
Brookhaven	100	99	100	97	70		2.60	2.57	0.92	3.75	3.24	0.23	0.64	1.44	2.88	4.90	9.53	14.40	97.4	2.53
Ithaca	100	97	95	98	71		3.52	3.11	0.70	3.87	2.47	0.65	1.08	2.02	3.55	4.90	7.91	9.60	122.2	4.30
Whiteface	100	98	112	95	85		1.94	1.86	0.80	2.54	2.45	0.20	0.66	1.06	2.02	3.12	4.63	18.24	109.1	2.12
North Carolina																				
NADP																				
Clinton Station	100	99	94	87	44		1.81	2.81	0.90	4.25	4.79	0.29	1.03	1.64	2.54	5.43	8.38	24.77	113.0	2.05
Coweeta	98	88	94	88	43		1.70	2.35	0.77	3.22	3.04	0.54	0.93	1.45	2.07	3.74	8.40	13.53	132.9	2.26
Finley (A)	100	91	95	77	34		1.68	2.32	0.83	3.20	3.10	0.36	0.65	1.51	2.83	3.51	6.04	17.81	76.5	1.29
Lewiston	100	99	105	87	43		1.71	2.59	0.94	4.28	6.29	0.32	0.96	1.81	2.28	3.46	9.63	37.61	79.5	1.36
Piedmont Station	100	99	98	81	40		2.73	3.07	0.59	3.82	3.89	0.98	1.58	2.14	2.92	4.02	6.09	25.44	99.3	2.71
R Triangle Inst	98	95	97	87	42		1.76	2.72	0.86	3.95	3.94	0.43	0.95	1.49	2.39	4.58	9.42	19.95	90.7	1.60
R Triangle Park	94	100	87	92	47		1.85	2.94	0.86	4.29	4.27	0.54	0.94	1.62	2.64	5.37	11.58	18.26	97.5	1.80
UAPSP																				
Raleigh	100	98	92	95	59		1.55	1.86	0.87	2.58	2.10	0.15	0.53	1.02	1.96	3.19	6.27	8.71	81.3	1.26
Ohio																				
NADP																				
Caldwell	100	100	101	96	47		4.46	4.44	0.53	5.13	3.13	1.30	2.55	2.82	4.70	5.95	10.01	15.71	90.6	4.04
Delaware	98	100	111	90	42		3.30	3.34	0.50	3.77	2.20	0.70	1.90	2.69	3.13	4.60	6.13	14.60	78.8	2.60
Wooster	94	94	99	87	42		3.46	3.65	0.55	4.25	2.56	1.17	1.84	2.36	3.93	4.96	8.78	13.59	79.7	2.76
MAP3s/PCN																				
Oxford	100	98	103	95	69		2.98	2.84	0.82	3.65	2.37	0.16	1.25	1.97	3.17	4.80	7.30	12.48	76.0	2.27
UAPSP																				
Zanesville	100	99	87	98	100		3.05	3.27	0.67	4.00	2.51	0.32	1.37	2.18	3.09	5.44	8.74	10.39	118.5	3.61
Oregon																				
NADP																				
Alsea	100	86	100	83	37		.53	.82	1.03	1.74	3.35	0.17	0.34	0.37	0.63	1.15	4.36	17.25	179.8	.96
H.J. Andrews	100	99	97	90	38	1	.31	.37	0.74	.53	.70	0.10	0.18	0.23	0.37	0.54	0.77	4.29	245.1	.77
Schmidt Farm	95	94	98	88	37		.51	.63	0.65	.80	.71	0.24	0.28	0.42	0.56	0.90	1.50	3.55	86.7	.45
Pennsylvania																				
NADP																				
Leading Ridge	98	97	89	88	44		3.48	3.39	0.65	4.11	2.68	0.79	1.32	2.08	4.02	5.12	7.32	15.81	96.3	3.35
MAP3s/PCN																				
Penn State	100	100	109	97	75		3.26	3.42	0.93	4.98	4.63	0.21	1.02	1.73	3.94	7.30	9.54	32.64	93.3	3.04

Sulfate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration: Wtd Mean mg/l	Concentration: Geometric Mean mg/l	Concentration: Geometric SD	Concentration: Arithmetic Mean mg/l	Concentration: Arithmetic SD mg/l	Concentration: Percentiles mg/l Min	Concentration: Percentiles mg/l 10%	Concentration: Percentiles mg/l 25%	Concentration: Percentiles mg/l 50%	Concentration: Percentiles mg/l 75%	Concentration: Percentiles mg/l 90%	Concentration: Percentiles mg/l Max	Total Precip cm	SO4 Dep g/m2
Tennessee																				
NADP																				
Elkmont	98	86	101	76	38		2.13	2.02	0.73	2.61	2.23	0.29	0.69	1.31	2.11	3.14	4.50	12.64	142.2	3.03
Walker Branch	98	93	103	85	44		2.98	3.20	0.53	3.63	1.85	0.86	1.47	2.23	3.42	4.83	5.72	10.90	95.3	2.84
MAP3s/PCN																				
Oak Ridge	99	98	109	98	63		2.88	3.21	0.58	3.79	2.43	0.74	1.48	2.02	3.17	4.99	6.22	15.36	95.1	2.74
Texas																				
NADP																				
K-Bar	98	100	99	82	28		1.08	1.41	0.83	1.91	1.52	0.26	0.40	0.80	1.51	2.64	4.00	6.90	42.5	.46
Victoria	100	94	99	78	32		1.03	1.49	1.01	2.43	2.64	0.17	0.47	0.68	1.31	2.80	7.59	9.83	113.6	1.17
Virginia																				
MAP3s/PCN																				
Virginia	100	95	100	96	48		3.03	3.07	0.71	3.79	2.33	0.54	1.03	2.23	3.31	4.97	7.02	12.48	90.8	2.75
Washington																				
NADP																				
Olympic Nat. Park	98	82	91	85	41	5	.39	.39	0.95	.55	.42	0.10	0.10	0.29	0.50	0.70	1.22	1.85	366.4	1.42
West Virginia																				
NADP																				
Parsons	100	100	94	98	50		3.54	3.48	0.48	3.89	2.16	0.74	2.31	2.89	3.55	4.13	6.24	15.40	129.4	4.58
Alberta																				
CANSAP																				
Edson	100	100	80	100	12		1.66	1.85	0.42	2.02	.88	1.10	1.10	1.23	1.70	2.92	3.51	3.60	42.8	.71
Lethbridge	91	100	75	91	11		2.40	2.93	0.88	4.16	3.69	0.80	0.86	1.50	2.30	7.59	10.94	11.18	39.1	.94
British Columbia																				
CANSAP																				
Port Hardy	92	100	84	92	11	1	.69	.63	0.58	.73	.41	0.30	0.30	0.40	0.80	1.20	1.38	1.40	188.2	1.30
Revelstoke	92	100	82	92	11		.64	.66	0.41	.71	.28	0.30	0.34	0.50	0.60	1.00	1.18	1.20	87.1	.56
Terrace	100	100	92	100	12	2	.40	.43	0.84	.57	.47	0.20	0.20	0.30	0.45	0.83	1.53	1.80	110.6	.44
Manitoba																				
CANSAP																				
Bissett	92	100	86	92	11	1	.82	.90	0.98	1.22	.80	0.20	0.20	0.80	1.10	1.80	2.76	3.00	48.4	.40
The Pas	100	100	78	100	12		1.20	1.37	0.59	1.64	1.20	0.60	0.66	0.85	1.15	1.85	4.29	4.80	52.7	.63
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	95	100	12	1	1.80	1.29	0.97	1.75	1.29	0.20	0.32	0.93	1.60	2.15	4.44	5.09	153.1	2.75
Newfoundland																				
CANSAP																				
Goose	91	100	77	91	11		.77	.71	0.40	.77	.34	0.40	0.42	0.50	0.60	1.00	1.48	1.60	115.5	.89
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	103	100	12		1.34	1.33	0.46	1.47	.69	0.70	0.73	0.90	1.20	2.18	2.64	2.70	157.3	2.11
Shelburne	100	100	91	100	12		1.46	1.42	0.45	1.54	.61	0.50	0.62	1.10	1.55	1.80	2.63	2.90	152.7	2.23
Truro	100	100	80	100	12		2.13	2.18	0.35	2.31	.84	1.20	1.35	1.70	2.00	2.87	3.88	4.30	130.7	2.79
APN																				
Kejimkujik	100	96	99	92	133	7	1.36	1.28	1.00	1.99	2.11	0.20	0.40	0.70	1.30	2.45	4.54	14.67	162.2	2.21
Ontario																				
CANSAP																				
Atikokan	100	100	91	100	12		1.90	1.62	0.64	1.94	1.19	0.50	0.62	0.90	1.75	2.90	4.08	4.20	58.9	1.12
Dorset	100	100	76	100	12		3.71	3.57	0.44	3.87	1.55	1.70	1.79	2.33	4.05	4.82	6.45	6.99	93.5	3.47
ELA	100	100	87	100	12		.92	1.08	0.76	1.34	.81	0.20	0.26	0.73	1.35	1.90	2.74	2.80	68.3	.63
Harrow	93	100	81	93	12		4.90	4.91	0.44	5.38	2.40	2.50	2.62	3.52	4.30	7.71	9.36	9.98	105.9	5.19

Sulfate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	SO4 Dep g/m2
Kingston	100	100	77	100	12		4.03	3.96	0.34	4.16	1.36	2.10	2.31	3.00	4.15	5.32	6.40	6.49	98.3	3.96
Mount Forest	92	100	79	92	11		4.25	3.99	0.30	4.14	1.15	2.30	2.40	3.00	4.20	4.99	5.73	5.79	88.4	3.76
Peterborough	100	100	86	100	12		3.39	3.06	0.56	3.47	1.60	1.00	1.18	1.88	3.70	5.09	5.29	5.29	87.5	2.96
Simcoe	100	100	84	100	12		4.24	4.08	0.34	4.30	1.45	2.40	2.43	3.22	4.20	5.34	6.69	6.69	88.7	3.76
APIOS-D																				
Balsam Lake	100	92	92	95	99		3.00	2.49	0.94	3.64	3.19	0.20	0.80	1.35	2.45	4.85	7.60	14.50	73.6	2.21
Charleston Lake	93	94	93	83	129		2.78	2.73	0.90	3.80	2.90	0.15	0.75	1.40	3.45	5.17	7.75	16.20	99.8	2.77
Dorset	100	99	88	96	132	1	3.03	2.11	1.05	3.23	3.06	0.05	0.50	1.25	2.35	4.00	6.78	19.90	92.8	2.81
Graham Lake	100	89	85	94	119	1	2.98	2.66	0.97	3.75	2.95	0.05	0.75	1.55	3.45	5.15	7.20	20.00	103.0	3.07
Longwoods	100	99	91	96	110		3.56	3.06	0.87	4.25	3.49	0.20	0.86	1.97	3.08	5.45	9.19	23.00	89.7	3.19
Melborne	100	97	90	95	101		3.35	3.53	0.79	4.75	4.24	0.45	1.22	2.20	3.75	5.88	8.51	30.00	80.5	2.69
Nithgrove	93	98	83	90	118		3.06	2.54	0.80	3.39	2.60	0.20	0.85	1.44	2.85	4.26	7.14	13.20	88.1	2.70
North Easthope	98	93	98	86	138		3.93	3.18	0.94	4.73	4.31	0.20	1.00	1.72	3.05	6.99	11.02	28.50	90.1	3.54
Railton	100	96	92	96	104		3.06	3.08	0.84	4.17	3.35	0.35	0.75	2.16	3.50	5.09	8.60	22.00	100.9	3.09
Raven Lake	91	97	99	88	112		3.28	2.82	0.83	3.80	2.96	0.25	0.96	1.69	3.27	5.03	6.75	15.50	78.9	2.58
Wellesly	93	95	93	87	107		3.38	3.53	0.78	4.59	3.28	0.20	1.35	2.15	3.65	6.30	9.13	17.00	84.5	2.86
APN																				
Chalk River	100	95	93	96	123		3.29	3.27	0.85	4.60	4.35	0.20	1.14	2.00	3.20	5.89	9.23	31.24	90.8	2.99
ELA	100	100	101	99	102	1	1.16	1.37	0.87	2.01	2.21	0.20	0.50	0.80	1.30	2.52	3.87	16.57	58.4	.68
Long Point	100	97	93	98	79		4.72	4.75	0.59	5.52	2.99	0.50	2.40	3.40	5.19	6.79	9.38	16.17	84.1	3.97
APIOS-C																				
Bear Island	100	95	78	92	11		3.01	2.64	0.40	2.83	1.01	1.30	1.37	1.65	3.00	3.90	4.17	4.20	79.5	2.39
Campbellford	100	91	79	92	11		3.53	3.06	0.71	3.60	1.63	0.50	0.77	1.90	4.45	5.05	5.17	5.20	83.7	2.96
Colchester	100	100	79	100	12		5.05	5.08	0.43	5.54	2.42	2.50	2.54	4.15	4.97	7.45	9.99	10.50	88.5	4.47
Dalhousie Mills	100	85	81	91	11		3.31	2.94	0.56	3.34	1.62	0.90	1.07	2.15	3.05	5.15	5.62	5.70	98.8	3.27
Dorion	100	100	88	100	12		1.69	1.65	0.46	1.82	.90	0.80	0.80	1.34	1.65	1.99	3.70	4.05	64.2	1.09
Ramsey	100	98	86	92	11		2.25	2.22	0.42	2.40	.95	0.95	1.05	1.70	2.05	3.00	4.04	4.20	75.2	1.69
Quebec																				
CANSAP																				
Maniwaki	100	100	81	100	12		3.21	3.12	0.47	3.42	1.44	1.30	1.45	2.23	3.35	4.70	5.47	5.59	89.8	2.85
Sept Isles	91	100	83	91	11		1.44	1.35	0.39	1.44	.45	0.50	0.60	1.10	1.50	1.80	2.06	2.10	120.1	1.73
APN																				
Montmorency	100	99	93	94	161	3	1.44	1.33	0.90	1.94	1.93	0.20	0.40	0.70	1.40	2.45	3.86	13.18	130.2	1.88

Nitrate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NO3 Dep g/m2
Arizona																				
NADP																				
Organ Pipe Mon.	94	100	97	87	16		.94	.97	1.21	1.90	2.50	0.15	0.16	0.33	1.08	2.14	7.89	8.33	18.4	.17
Arkansas																				
NADP																				
Fayetteville	98	95	99	85	40		.96	1.07	0.63	1.30	.86	0.24	0.56	0.67	1.01	1.73	2.77	4.06	106.6	1.02
California																				
NADP																				
Bishop	92	79	103	75	12		.73	1.18	1.43	2.48	3.03	0.05	0.14	0.55	0.98	3.07	8.80	9.11	11.2	.08
Hopland (Ukiah)	98	88	97	88	26	1	.28	.29	1.07	.44	.38	0.02	0.07	0.17	0.34	0.58	1.08	1.46	106.0	.30
Colorado																				
NADP																				
Alamosa	90	99	93	79	31		1.03	1.06	0.57	1.24	.69	0.33	0.43	0.78	1.09	1.65	2.28	3.27	22.6	.23
Pawnee	90	94	94	77	31		1.73	2.30	0.71	2.92	2.10	0.56	0.94	1.40	2.24	4.24	5.98	8.74	33.7	.58
Rocky Mt. Nat Park	96	81	91	77	36		1.46	1.12	0.94	1.61	1.36	0.09	0.33	0.62	1.30	2.11	3.57	6.42	33.4	.49
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	98	59	1	1.36	1.21	1.24	2.20	3.04	0.02	0.23	0.74	1.36	2.54	3.97	19.84	89.1	1.21
Florida																				
NADP																				
Bradford Forest	96	84	91	83	27		.83	.85	0.83	1.18	1.21	0.12	0.31	0.48	0.81	1.47	2.04	6.39	89.6	.74
Georgia																				
NADP																				
Georgia Station	96	94	101	81	33	1	.88	.95	1.08	1.37	1.26	0.02	0.36	0.64	1.17	1.58	2.19	6.74	96.8	.85
Illinois																				
NADP																				
Argonne	96	94	98	81	41		1.70	1.98	0.55	2.32	1.59	0.57	1.00	1.44	2.06	2.68	3.94	10.07	92.9	1.58
Bondville	98	98	97	85	42		1.66	2.01	0.56	2.37	1.63	0.60	1.06	1.37	1.78	2.86	4.94	8.68	100.3	1.67
Dixon Springs	100	86	93	81	38		1.23	1.41	0.75	1.79	1.38	0.08	0.61	1.07	1.34	2.07	3.58	7.34	113.0	1.39
MAP3s/PCN																				
Illinois	99	77	103	88	50		1.56	1.74	0.56	2.03	1.16	0.40	0.94	1.10	1.61	2.56	3.83	4.77	92.9	1.45
Indiana																				
UAPSP																				
Fort Wayne	100	98	94	94	87		1.95	2.00	0.68	2.50	1.75	0.33	0.80	1.27	1.91	3.28	5.32	8.86	99.5	1.94
Rockport	100	100	101	99	88		1.49	1.52	0.63	1.84	1.21	0.16	0.67	0.99	1.60	2.24	3.42	7.82	93.9	1.40
Maine																				
NADP																				
Bridgton	100	94	99	88	44		1.15	1.24	0.81	1.70	1.44	0.23	0.42	0.72	1.19	2.21	3.97	6.61	108.1	1.24
Caribou	96	75	94	76	38	1	.75	.78	1.08	1.15	.95	0.02	0.28	0.45	0.81	1.71	2.55	4.02	118.5	.89
Greenville Station	97	78	92	90	46		.80	.89	0.63	1.08	.72	0.24	0.42	0.53	0.88	1.35	2.30	3.26	113.2	.91
Massachusetts																				
UAPSP																				
Turners Falls	100	100	98	100	102		1.79	1.76	0.88	2.48	2.02	0.21	0.47	0.98	1.91	3.40	5.48	9.62	101.8	1.83
Michigan																				
NADP																				
Kellogg	98	97	94	77	38		1.83	2.11	0.48	2.38	1.33	0.79	1.17	1.40	2.11	2.64	4.58	6.80	83.9	1.53
Minnesota																				
NADP																				
Lamberton	94	98	83	85	35		1.77	1.80	0.73	2.30	1.73	0.29	0.71	1.04	1.75	3.12	4.17	8.14	53.5	.95
Marcell	100	97	90	85	41		1.08	1.28	0.74	1.80	2.42	0.29	0.58	0.77	1.25	1.89	3.09	15.69	77.7	.84

Nitrate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NO3 Dep g/m2
Mississippi																				
NADP																				
Meridian	100	91	88	77	36		.71	1.03	0.79	1.38	1.07	0.18	0.30	0.58	0.97	1.88	3.08	4.79	106.2	.75
Nebraska																				
NADP																				
Mead	92	93	96	79	34		1.22	1.59	0.64	2.02	1.88	0.63	0.74	1.00	1.46	2.34	3.58	10.63	71.3	.87
New Hampshire																				
NADP																				
Hubbard Brook	98	100	96	96	50	1	1.31	1.37	1.05	2.02	1.80	0.02	0.56	0.87	1.39	2.33	5.10	8.26	151.5	1.99
New York																				
NADP																				
Aurora	98	83	90	81	41		2.28	2.41	0.64	2.97	2.18	0.58	1.09	1.49	2.29	3.94	5.52	11.66	94.9	2.17
Chautauqua	98	99	94	96	47		2.10	2.20	0.75	3.60	7.80	0.77	1.05	1.35	1.92	2.99	4.72	54.06	102.8	2.16
Knobit	100	84	99	91	47		1.80	1.95	0.72	2.44	1.64	0.30	0.67	1.19	2.23	3.13	4.10	8.36	96.3	1.73
Stilwell Lake	98	92	86	90	44		1.72	2.12	0.80	2.74	1.81	0.25	0.62	1.42	2.34	3.50	5.49	7.20	117.6	2.02
MAP3s/PCN																				
Brookhaven	100	99	100	97	70		1.46	1.53	1.11	2.61	2.72	0.14	0.43	0.61	1.86	3.98	6.75	12.40	97.4	1.42
Ithaca	100	97	95	98	71		1.93	2.20	0.62	2.62	1.65	0.44	0.97	1.36	2.29	3.41	4.43	9.92	122.2	2.35
Whiteface	100	98	112	95	85		1.12	1.41	0.80	1.91	1.66	0.16	0.56	0.90	1.30	2.42	4.09	9.30	109.1	1.22
North Carolina																				
NADP																				
Clinton Station	100	99	94	87	44		.93	1.43	0.96	2.16	2.06	0.12	0.44	0.84	1.29	2.69	6.52	7.84	113.0	1.05
Coweeta	98	88	94	88	43	1	.82	1.05	1.10	1.59	1.36	0.02	0.40	0.53	1.24	2.14	3.69	5.16	132.9	1.09
Finley (A)	100	91	95	77	34		.99	1.35	0.83	1.84	1.57	0.25	0.39	0.80	1.34	2.46	3.65	8.20	76.5	.76
Lewiston	100	99	105	87	43	1	.94	1.20	1.20	2.28	4.20	0.02	0.36	0.91	1.18	2.13	4.71	27.37	79.5	.75
Piedmont Station	100	99	98	81	40		1.30	1.43	0.64	1.80	1.62	0.41	0.60	0.91	1.48	2.07	3.38	10.21	99.3	1.29
R Triangle Inst	98	95	97	87	42	2	.94	1.26	1.33	2.05	1.87	0.02	0.48	0.92	1.50	2.53	5.05	8.14	90.7	.85
R Triangle Park	94	100	87	92	47		1.01	1.60	0.82	2.24	2.17	0.25	0.49	0.91	1.58	2.71	4.53	10.89	97.5	.99
UAPSP																				
Raleigh	100	98	92	95	59	4	.85	.76	1.40	1.43	1.41	0.03	0.09	0.35	0.98	2.33	3.30	7.89	81.3	.69
Ohio																				
NADP																				
Caldwell	100	100	101	96	47		2.00	2.51	0.58	2.99	2.12	0.53	1.45	1.78	2.34	3.61	5.46	12.26	90.6	1.82
Delaware	98	100	111	90	42		1.77	2.25	0.55	2.65	1.80	0.85	1.18	1.42	2.16	3.13	4.72	10.13	78.8	1.39
Wooster	94	94	99	87	42		1.83	2.23	0.73	2.87	2.35	0.30	0.97	1.50	2.08	3.48	6.07	13.30	79.7	1.46
MAP3s/PCN																				
Oxford	100	98	103	95	69		1.53	1.61	0.69	1.99	1.27	0.19	0.62	1.12	1.61	2.67	4.09	6.20	76.0	1.17
UAPSP																				
Zanesville	100	99	87	98	100		1.75	2.12	0.64	2.56	1.58	0.33	0.99	1.27	2.17	3.39	4.86	7.61	118.5	2.07
Oregon																				
NADP																				
Alsea	100	86	100	83	37	8	.12	.12	1.61	.35	.55	0.02	0.02	0.05	0.14	0.34	1.20	2.28	179.8	.22
H.J. Andrews	100	99	97	90	38	1	.12	.17	0.93	.25	.28	0.02	0.06	0.10	0.19	0.28	0.56	1.70	245.1	.30
Schmidt Farm	95	94	98	88	37		.22	.30	0.79	.43	.56	0.10	0.11	0.16	0.26	0.49	0.85	3.23	86.7	.19
Pennsylvania																				
NADP																				
Leading Ridge	98	97	89	88	44	1	1.97	2.08	1.05	2.79	1.86	0.02	0.95	1.59	2.48	3.57	4.99	8.28	96.3	1.90
MAP3s/PCN																				
Penn State	100	100	109	97	75		1.81	2.63	0.91	3.77	3.20	0.16	0.87	1.55	2.85	4.59	10.17	12.40	93.3	1.69

Nitrate

State / Network / Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NO3 Dep g/m2
Tennessee																				
NADP																				
Elkmont	98	86	101	76	38	1	.95	.91	1.06	1.54	2.91	0.02	0.43	0.60	1.05	1.45	1.75	18.55	142.2	1.36
Walker Branch	98	93	103	85	44		1.21	1.39	0.61	1.67	1.22	0.28	0.60	1.01	1.41	1.87	2.61	7.80	95.3	1.16
MAP3s/PCN																				
Oak Ridge	99	98	109	98	63		1.20	1.46	0.65	1.81	1.34	0.29	0.62	0.99	1.49	2.05	3.52	7.44	95.1	1.15
Texas																				
NADP																				
K-Bar	98	100	99	82	28		.64	.83	0.67	1.03	.68	0.26	0.29	0.47	0.85	1.39	2.39	2.44	42.5	.27
Victoria	100	94	99	78	32		.66	.96	0.98	1.46	1.37	0.11	0.21	0.56	0.95	1.59	3.73	5.59	113.6	.75
Virginia																				
MAP3s/PCN																				
Virginia	100	95	100	96	48		1.56	1.88	0.69	2.41	2.10	0.41	0.80	1.32	1.74	2.70	4.40	9.92	90.8	1.42
Washington																				
NADP																				
Olympic Nat. Park	98	82	91	85	41	1	.10	.11	0.89	.18	.25	0.02	0.04	0.06	0.13	0.19	0.35	1.61	366.4	.35
West Virginia																				
NADP																				
Parsons	100	100	94	98	50		1.89	2.04	0.56	2.39	1.54	0.54	1.14	1.43	1.98	2.81	3.84	8.39	129.4	2.44
Alberta																				
CANSAP																				
Edson	100	100	80	100	12		.63	.77	0.63	.92	.57	0.23	0.28	0.49	0.83	1.22	2.02	2.35	42.8	.27
Lethbridge	91	100	75	91	11		1.37	1.87	0.82	2.55	2.24	0.58	0.63	0.85	1.88	2.89	7.13	7.36	39.1	.53
British Columbia																				
CANSAP																				
Port Hardy	92	100	84	92	11	2	.12	.08	1.31	.13	.07	0.01	0.01	0.05	0.14	0.18	0.22	0.23	188.2	.23
Revelstoke	92	100	82	92	11	1	.50	.38	1.56	.59	.32	0.01	0.08	0.40	0.52	0.80	1.09	1.11	87.1	.44
Terrace	100	100	92	100	12	5	.06	.03	1.78	.10	.12	0.01	0.01	0.01	0.05	0.17	0.34	0.36	110.6	.06
Manitoba																				
CANSAP																				
Bissett	92	100	86	92	11	4	.28	.09	2.42	.54	.90	0.01	0.01	0.01	0.09	0.71	2.59	2.84	48.4	.14
The Pas	100	100	78	100	12		.86	1.04	0.66	1.31	1.10	0.36	0.40	0.81	0.94	1.25	3.80	4.30	52.7	.45
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	95	100	12	1	.79	.51	1.60	.81	.48	0.01	0.11	0.54	0.72	1.11	1.63	1.69	153.1	1.21
Newfoundland																				
CANSAP																				
Goose	91	100	77	91	11	3	.13	.06	1.63	.14	.13	0.01	0.01	0.01	0.09	0.27	0.34	0.36	115.5	.15
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	103	100	12	1	.63	.39	1.73	.74	.57	0.01	0.02	0.34	0.69	1.09	1.77	1.95	157.3	.99
Shelburne	100	100	91	100	12		.74	.71	0.61	.83	.49	0.27	0.29	0.40	0.70	1.20	1.71	1.82	152.7	1.13
Truro	100	100	80	100	12		.79	.69	0.78	.89	.70	0.11	0.21	0.49	0.75	1.10	2.39	2.84	130.7	1.03
APN																				
Kejimkujik	100	95	99	89	120	4	.63	.45	1.53	1.03	1.29	0.01	0.05	0.21	0.50	1.40	2.57	6.95	162.2	1.03
Ontario																				
CANSAP																				
Atikokan	100	100	91	100	12		1.23	1.31	0.64	1.55	.90	0.49	0.53	0.72	1.53	2.35	3.04	3.20	58.9	.72
Dorset	100	100	76	100	12		2.42	2.42	0.35	2.55	.81	1.17	1.30	1.96	2.37	3.44	3.60	3.60	93.5	2.27
ELA	100	100	87	100	12		.86	1.06	0.75	1.34	.88	0.40	0.41	0.47	1.27	2.31	2.59	2.62	68.3	.59
Harrow	93	100	81	93	12	1	2.74	1.80	1.96	3.10	1.68	0.01	0.54	2.28	2.57	4.50	5.83	6.03	105.9	2.90

1981 Annual Summary

Nitrate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NO3 Dep g/m2
Kingston	100	100	77	100	12		3.94	4.18	0.32	4.38	1.44	2.64	2.73	3.12	4.21	5.23	7.08	7.45	98.3	3.87
Mount Forest	92	100	79	92	11		2.63	2.56	0.48	2.84	1.34	1.20	1.29	1.69	2.44	4.12	4.94	5.01	88.4	2.32
Peterborough	100	100	86	100	12		2.41	2.64	0.39	2.84	1.20	1.58	1.64	1.79	2.66	3.46	5.20	5.63	87.5	2.10
Simcoe	100	100	84	100	12		3.10	3.32	0.33	3.50	1.33	2.04	2.20	2.63	3.21	3.78	6.36	6.90	88.7	2.75
APIOS-D																				
Balsam Lake	100	92	91	96	101		2.10	2.04	0.88	2.88	2.49	0.22	0.64	1.15	2.30	3.59	6.64	15.06	73.6	1.54
Charleston Lake	93	95	93	83	130		2.01	2.19	0.99	3.39	4.16	0.04	0.71	1.24	2.33	4.46	7.06	39.41	99.8	2.00
Dorset	100	100	88	97	133	2	2.06	1.81	1.06	2.77	2.44	0.04	0.46	1.11	1.95	3.99	6.75	11.51	92.8	1.91
Graham Lake	100	94	86	94	121	2	2.45	2.02	1.14	3.28	3.93	0.04	0.40	1.22	2.26	4.36	7.03	38.09	103.0	2.52
Longwoods	100	99	91	96	110		2.50	2.39	0.98	3.55	3.40	0.09	0.71	1.39	2.59	4.62	7.48	24.80	89.7	2.24
Melborne	100	97	89	95	101	1	2.42	2.58	1.04	3.90	3.88	0.04	0.77	1.71	2.79	4.98	7.09	23.91	80.5	1.94
Nithgrove	93	97	83	90	118	1	2.02	1.94	1.02	2.94	2.79	0.04	0.66	1.11	2.10	3.36	6.65	15.50	88.1	1.78
North Easthope	98	96	97	87	141	2	2.31	2.30	1.14	3.73	3.83	0.04	0.67	1.24	2.83	5.18	7.81	26.57	90.1	2.08
Railton	100	98	91	96	104		2.20	2.47	0.86	3.48	3.33	0.22	0.80	1.43	2.72	4.61	6.55	26.57	100.9	2.22
Raven Lake	91	98	99	88	110		2.19	2.12	0.88	2.96	2.43	0.18	0.62	1.23	2.30	3.65	6.89	12.84	78.9	1.72
Wellesly	93	95	93	87	109		2.14	2.73	0.87	3.67	2.71	0.04	1.06	1.64	3.10	4.78	7.53	13.29	84.5	1.81
Whitman Creek	99	83	91	94	102	1	2.19	2.08	1.07	3.30	3.53	0.04	0.53	1.27	2.19	4.47	7.26	24.80	103.6	2.27
APN																				
Chalk River	100	91	94	89	97		2.14	2.22	0.90	3.40	4.72	0.17	0.71	1.23	2.13	4.06	7.19	43.20	90.8	1.94
ELA	100	95	100	91	72	2	.87	.70	1.39	1.29	1.24	0.01	0.12	0.42	0.76	1.86	3.10	5.63	58.4	.51
Long Point	100	96	94	96	75		3.39	3.92	0.64	4.81	3.39	0.82	1.82	2.35	4.07	5.94	8.99	20.39	84.1	2.85
APIOS-C																				
Bear Island	100	95	78	92	11		1.55	1.57	0.45	1.74	.94	0.75	0.85	1.24	1.28	2.04	3.84	4.25	79.5	1.23
Colchester	100	95	79	92	11		2.74	3.02	0.36	3.22	1.24	1.86	1.92	2.26	2.75	4.47	5.38	5.45	88.5	2.42
Dalhousie Mills	100	85	81	91	11		2.12	2.19	0.47	2.44	1.27	1.02	1.11	1.73	1.86	3.19	4.92	5.05	98.8	2.10
Dorion	100	100	88	100	12		1.38	1.45	0.53	1.63	.73	0.49	0.59	0.93	1.59	2.35	2.52	2.52	64.2	.88
Ramsey	100	98	86	92	11		1.36	1.42	0.57	1.61	.76	0.44	0.49	1.15	1.59	2.44	2.76	2.83	75.2	1.02
Quebec																				
CANSAP																				
Maniwaki	100	100	81	100	12	1	1.90	1.41	1.77	2.48	2.05	0.01	0.38	1.47	1.86	3.26	6.75	8.23	88.8	1.69
Sept Isles	91	100	83	91	11	2	.54	.22	1.97	.56	.53	0.01	0.01	0.06	0.40	0.91	1.46	1.47	120.1	.65
APN																				
Montmorency	100	96	94	82	118	4	.90	.60	1.46	1.30	1.71	0.01	0.09	0.29	0.67	1.49	3.73	8.59	130.2	1.18

Ammonium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NH4 Dep g/m2
Arizona																				
NADP																				
Organ Pipe Mon.	94	100	97	87	16	3	.24	.17	1.72	.42	.55	0.01	0.02	0.09	0.26	0.39	1.74	1.82	18.4	.04
Arkansas																				
NADP																				
Fayetteville	98	95	99	85	40	2	.39	.34	1.04	.50	.45	0.02	0.16	0.22	0.43	0.58	0.99	2.44	106.6	.42
California																				
NADP																				
Bishop	92	79	103	75	12	2	.11	.19	1.58	.56	.90	0.02	0.03	0.06	0.26	0.36	2.49	2.54	11.2	.01
Hopland (Ukiah)	98	88	97	88	26	3	.07	.07	1.25	.15	.27	0.01	0.02	0.04	0.07	0.12	0.45	1.32	106.0	.07
Colorado																				
NADP																				
Alamosa	90	99	93	79	31	2	.41	.31	1.04	.45	.33	0.02	0.09	0.20	0.36	0.69	1.01	1.17	22.6	.09
Pawnee	90	94	94	77	31		.71	.79	0.87	1.10	.90	0.12	0.20	0.38	0.90	1.43	2.57	4.13	33.7	.24
Rocky Mt. Nat Park	96	81	91	77	36	3	.34	.19	1.32	.34	.36	0.01	0.05	0.13	0.21	0.52	0.74	1.84	33.4	.11
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	98	59	2	.27	.20	1.20	.33	.27	0.01	0.03	0.12	0.22	0.52	0.74	1.04	89.1	.24
Florida																				
NADP																				
Bradford Forest	96	84	91	83	27	3	.20	.17	1.35	.33	.38	0.02	0.02	0.07	0.23	0.40	1.11	1.61	89.6	.17
Georgia																				
NADP																				
Georgia Station	96	94	101	81	33	3	.20	.17	1.12	.26	.20	0.02	0.04	0.10	0.24	0.32	0.56	0.92	96.8	.19
Illinois																				
NADP																				
Argonne	96	94	98	81	41		.40	.41	0.71	.50	.32	0.07	0.14	0.30	0.47	0.63	0.90	1.72	92.9	.37
Bondville	98	98	97	85	42	1	.38	.44	1.00	.71	.91	0.02	0.20	0.25	0.41	0.66	1.95	4.84	100.3	.38
Dixon Springs	100	86	93	81	38		.35	.37	0.61	.44	.31	0.08	0.16	0.25	0.38	0.54	0.78	1.86	113.0	.40
MAP3s/PCN																				
Illinois	99	76	103	88	49		.41	.37	0.82	.49	.40	0.03	0.12	0.24	0.43	0.59	0.92	2.52	92.9	.38
Indiana																				
UAPSP																				
Fort Wayne	100	99	94	94	88	1	.50	.46	0.93	.67	.61	0.03	0.16	0.27	0.46	0.83	1.58	3.34	99.5	.49
Rockport	100	100	101	99	88		.35	.29	0.78	.38	.25	0.03	0.10	0.21	0.32	0.49	0.76	1.23	93.9	.33
Maine																				
NADP																				
Bridgton	100	94	99	88	44	9	.17	.10	1.34	.19	.19	0.02	0.02	0.05	0.13	0.29	0.53	0.69	108.1	.18
Caribou	96	75	94	76	38	7	.12	.09	1.26	.16	.18	0.02	0.02	0.05	0.10	0.20	0.38	0.85	118.5	.15
Greenville Station	97	78	92	90	46	11	.10	.07	1.24	.12	.11	0.02	0.02	0.03	0.10	0.21	0.29	0.42	113.2	.11
Massachusetts																				
UAPSP																				
Turners Falls	100	100	97	100	103	5	.25	.19	1.19	.33	.33	0.02	0.04	0.07	0.25	0.52	0.69	2.23	101.8	.25
Michigan																				
NADP																				
Kellogg	98	97	94	77	38	2	.44	.35	1.14	.50	.30	0.01	0.09	0.27	0.44	0.75	0.93	1.08	83.9	.37
Minnesota																				
NADP																				
Lamberton	94	98	83	85	35	1	.79	.70	1.04	.92	.52	0.01	0.33	0.52	0.87	1.19	1.90	2.11	53.5	.42
Marcell	100	97	90	85	41	2	.33	.24	1.21	.50	.94	0.02	0.07	0.11	0.24	0.47	1.04	5.78	77.7	.26

Ammonium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Concentration Geometric Mean mg/l	Concentration Geometric SD	Concentration Arithmetic Mean mg/l	Concentration Arithmetic SD mg/l	Percentiles mg/l Min	Percentiles mg/l 10%	Percentiles mg/l 25%	Percentiles mg/l 50%	Percentiles mg/l 75%	Percentiles mg/l 90%	Percentiles mg/l Max	Total Precip cm	NH4 Dep g/m2
Mississippi																				
NADP																				
Meridian	100	91	88	77	36		.19	.23	0.90	.34	.33	0.05	0.07	0.10	0.25	0.44	0.80	1.65	106.2	.20
Nebraska																				
NADP																				
Mead	92	93	96	79	34	1	.56	.70	0.85	1.04	1.37	0.12	0.25	0.43	0.77	1.27	1.86	8.14	71.3	.40
New Hampshire																				
NADP																				
Hubbard Brook	98	100	96	96	50	6	.21	.14	1.20	.23	.20	0.02	0.02	0.07	0.17	0.35	0.57	0.79	151.5	.31
New York																				
NADP																				
Aurora	98	83	90	81	41		.42	.40	0.82	.54	.47	0.05	0.13	0.24	0.44	0.66	1.10	2.52	94.9	.40
Chautauqua	98	99	94	96	47		.40	.38	0.88	.62	1.02	0.06	0.12	0.19	0.38	0.56	1.16	6.93	102.8	.41
Knobit	100	84	99	91	47	3	.29	.22	1.15	.34	.29	0.01	0.06	0.15	0.32	0.44	0.63	1.37	96.3	.28
Stilwell Lake	98	92	86	90	44	7	.22	.17	1.32	.32	.40	0.02	0.02	0.10	0.26	0.40	0.66	2.45	117.6	.26
MAP3s/PCN																				
Brookhaven	100	99	100	97	71	2	.22	.18	1.29	.33	.34	0.01	0.03	0.08	0.23	0.45	0.88	1.60	97.4	.22
Ithaca	100	97	95	98	71		.31	.31	0.86	.42	.32	0.02	0.10	0.17	0.34	0.61	0.84	1.80	122.2	.38
Whiteface	100	98	112	95	85	3	.20	.16	1.35	.31	.34	0.01	0.02	0.06	0.20	0.42	0.86	1.80	109.1	.22
North Carolina																				
NADP																				
Clinton Station	100	99	94	87	44	4	.17	.19	1.34	.39	.52	0.02	0.02	0.10	0.25	0.42	1.04	2.53	113.0	.20
Coweeta	98	88	94	88	43	3	.17	.15	1.09	.25	.25	0.01	0.05	0.08	0.16	0.31	0.66	1.09	132.9	.23
Finley (A)	100	91	95	77	34		.20	.29	0.87	.43	.56	0.04	0.09	0.16	0.30	0.47	0.89	3.31	76.5	.16
Lewiston	100	99	105	87	43	3	.17	.21	1.31	.46	.83	0.02	0.05	0.10	0.25	0.49	1.01	5.22	79.5	.13
Piedmont Station	100	99	98	81	40	1	.25	.23	1.04	.43	.79	0.02	0.07	0.11	0.23	0.39	0.89	4.87	99.3	.25
R Triangle Inst	98	95	97	87	42	3	.15	.18	1.28	.36	.49	0.02	0.04	0.09	0.19	0.44	0.91	2.59	90.7	.14
R Triangle Park	94	100	87	92	47	1	.16	.22	0.99	.37	.48	0.03	0.07	0.11	0.19	0.44	0.86	2.70	97.5	.16
UAPSP																				
Raleigh	100	99	92	95	61	5	.17	.15	1.16	.25	.23	0.01	0.03	0.06	0.17	0.32	0.64	0.88	81.3	.14
Ohio																				
NADP																				
Caldwell	100	100	101	96	47		.36	.36	0.77	.48	.45	0.05	0.13	0.21	0.40	0.56	0.95	2.83	90.6	.32
Delaware	98	100	111	90	42		.36	.37	0.67	.45	.30	0.07	0.13	0.27	0.40	0.58	0.84	1.57	78.8	.28
Wooster	94	94	99	87	42	2	.42	.39	1.15	.60	.58	0.01	0.18	0.25	0.39	0.70	1.57	2.90	79.7	.34
MAP3s/PCN																				
Oxford	100	98	103	95	69	2	.35	.29	1.08	.42	.33	0.01	0.11	0.17	0.34	0.61	0.83	1.80	76.0	.27
UAPSP																				
Zanesville	100	100	87	99	103	1	.35	.34	0.90	.48	.41	0.03	0.10	0.19	0.38	0.67	1.06	2.24	118.5	.41
Oregon																				
NADP																				
Alsea	100	86	100	83	37	22	.02	.02	1.41	.10	.26	0.01	0.02	0.02	0.02	0.05	0.20	1.44	179.8	.03
H.J. Andrews	100	99	97	90	38	32	.01	.01	0.88	.03	.06	0.01	0.01	0.02	0.02	0.02	0.06	0.36	245.1	.03
Schmidt Farm	95	94	98	88	37	11	.11	.05	1.27	.11	.21	0.01	0.02	0.02	0.07	0.14	0.20	1.30	86.7	.10
Pennsylvania																				
NADP																				
Leading Ridge	98	97	89	88	44	1	.33	.30	0.93	.43	.46	0.02	0.08	0.18	0.35	0.49	0.77	2.77	96.3	.32
MAP3s/PCN																				
Penn State	100	99	109	96	73	1	.45	.37	1.26	.66	.74	0.01	0.05	0.22	0.45	0.86	1.58	4.50	93.3	.42

Ammonium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NH4 Dep g/m2
Tennessee																				
NADP																				
Elkmont	98	86	101	76	38	3	.20	.16	1.24	.32	.54	0.02	0.03	0.09	0.19	0.31	0.58	3.15	142.2	.29
Walker Branch	98	93	103	85	44	2	.21	.17	0.94	.23	.20	0.02	0.05	0.09	0.19	0.33	0.39	1.20	95.3	.20
MAP3s/PCN																				
Oak Ridge	99	98	109	98	63		.23	.21	0.91	.30	.28	0.03	0.05	0.11	0.23	0.41	0.59	1.80	95.1	.22
Texas																				
NADP																				
K-Bar	98	100	99	82	28	3	.20	.21	1.02	.29	.22	0.02	0.07	0.18	0.26	0.33	0.55	0.98	42.5	.08
Victoria	100	94	99	78	32	4	.17	.17	1.49	.38	.54	0.02	0.02	0.05	0.23	0.55	0.79	2.88	113.6	.19
Virginia																				
MAP3s/PCN																				
Virginia	100	95	100	96	48		.29	.30	1.01	.44	.33	0.02	0.06	0.20	0.40	0.61	0.90	1.67	90.8	.26
Washington																				
NADP																				
Olympic Nat. Park	98	82	91	85	41	35	.01	.01	0.68	.02	.03	0.01	0.01	0.02	0.02	0.02	0.03	0.14	366.4	.05
West Virginia																				
NADP																				
Parsons	100	100	94	98	50	2	.29	.24	1.07	.35	.29	0.01	0.05	0.18	0.30	0.45	0.72	1.52	129.4	.37
Alberta																				
CANSAP																				
Edson	100	100	80	100	12		.16	.13	1.54	.24	.20	0.01	0.01	0.06	0.21	0.35	0.63	0.73	42.8	.07
Lethbridge	91	100	75	91	11		.42	.12	1.65	.27	.26	0.01	0.01	0.03	0.23	0.45	0.75	0.81	39.1	.16
British Columbia																				
CANSAP																				
Port Hardy	92	100	84	92	11	4	.06	.01	1.85	.08	.19	0.00	0.00	0.01	0.01	0.05	0.54	0.65	188.2	.12
Revelstoke	92	100	82	92	11		.10	.08	1.25	.13	.12	0.01	0.01	0.02	0.10	0.21	0.35	0.35	87.1	.09
Terrace	100	100	92	100	12	1	.01	.01	1.10	.01	.01	0.00	0.00	0.00	0.01	0.02	0.03	0.03	110.6	.01
Manitoba																				
CANSAP																				
Bissett	92	100	86	92	11	4	.05	.01	1.81	.07	.13	0.00	0.00	0.01	0.01	0.09	0.38	0.45	48.4	.02
The Pas	100	100	78	100	12		.23	.17	0.98	.23	.18	0.01	0.04	0.11	0.19	0.32	0.59	0.69	52.7	.12
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	95	100	12	2	.13	.04	2.23	.13	.12	0.00	0.00	0.00	0.14	0.23	0.32	0.34	153.1	.20
Newfoundland																				
CANSAP																				
Goose	91	100	77	91	11	3	.04	.02	1.47	.05	.05	0.01	0.01	0.01	0.04	0.07	0.16	0.17	115.5	.05
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	103	100	12		.05	.03	1.34	.07	.09	0.00	0.01	0.01	0.03	0.14	0.26	0.30	157.3	.08
Shelburne	100	100	91	100	12	1	.08	.05	1.68	.10	.09	0.00	0.00	0.01	0.08	0.17	0.27	0.29	152.7	.13
Truro	100	100	80	100	12	1	.17	.09	1.68	.20	.20	0.01	0.01	0.03	0.13	0.34	0.59	0.67	130.7	.22
APN																				
Kejimkujik	100	95	99	89	120	13	.09	.05	1.70	.14	.19	0.00	0.01	0.01	0.06	0.16	0.41	0.98	162.2	.15
Ontario																				
CANSAP																				
Atikokan	100	100	91	100	12		.37	.29	1.07	.45	.43	0.02	0.06	0.18	0.29	0.56	1.39	1.57	58.9	.22
Dorset	100	100	76	100	12	1	.49	.29	1.57	.47	.28	0.01	0.05	0.19	0.50	0.72	0.85	0.85	93.5	.46
ELA	100	100	87	100	12		.31	.28	1.04	.42	.35	0.03	0.04	0.17	0.29	0.75	1.08	1.18	68.3	.21
Harrow	93	100	81	93	12		.44	.27	1.48	.47	.37	0.01	0.02	0.15	0.48	0.57	1.18	1.38	105.9	.46

Ammonium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Concentration Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NH4 Dep g/m2
Kingston	100	100	77	100	12		.35	.18	1.74	.45	.46	0.01	0.01	0.05	0.21	0.87	1.21	1.33	98.3	.35
Mount Forest	92	100	79	92	11		.76	.78	0.33	.82	.27	0.48	0.50	0.57	0.78	1.06	1.25	1.28	88.4	.67
Peterborough	100	100	86	100	12		.51	.35	1.41	.56	.43	0.01	0.05	0.20	0.59	0.73	1.41	1.60	87.5	.45
Simcoe	100	100	84	100	12		.47	.44	0.62	.50	.24	0.13	0.13	0.33	0.53	0.61	0.90	0.96	88.7	.41
APIOS-D																				
Balsam Lake	100	90	92	92	88		.41	.29	1.22	.51	.47	0.01	0.05	0.14	0.35	0.80	1.22	1.87	73.6	.30
Charleston Lake	93	93	93	80	120	2	.39	.30	1.43	.54	.49	0.00	0.06	0.19	0.43	0.73	1.18	2.64	99.8	.39
Dorset	100	92	92	92	114	3	.41	.24	1.60	.50	.52	0.00	0.03	0.13	0.31	0.70	1.19	2.77	92.8	.38
Graham Lake	100	88	88	91	108		.44	.36	1.18	.57	.47	0.01	0.07	0.21	0.48	0.78	1.22	1.97	103.0	.46
Longwoods	100	97	91	94	100		.57	.49	0.91	.72	.71	0.05	0.13	0.28	0.52	0.94	1.54	5.66	89.7	.51
Melborne	100	94	90	90	84		.57	.54	0.82	.72	.55	0.04	0.19	0.28	0.58	0.93	1.57	2.43	80.5	.46
Nithgrove	93	86	87	83	92	1	.46	.35	1.19	.57	.51	0.00	0.09	0.16	0.43	0.86	1.14	2.32	88.1	.41
North Easthope	98	83	99	77	104	2	.56	.52	1.22	.84	.87	0.00	0.16	0.35	0.65	1.01	1.71	5.59	90.1	.50
Railton	100	95	92	93	92		.47	.44	0.93	.62	.50	0.01	0.12	0.25	0.49	0.89	1.25	2.35	100.9	.47
Raven Lake	91	92	101	83	92		.47	.35	1.23	.57	.49	0.00	0.09	0.18	0.42	0.86	1.34	2.34	78.9	.37
Wellesly	93	89	94	80	83		.53	.62	0.85	.89	.96	0.06	0.17	0.38	0.67	1.06	1.64	7.27	84.5	.45
Whitman Creek	99	85	94	92	97	3	.44	.34	1.37	.59	.58	0.00	0.09	0.18	0.45	0.71	1.51	3.09	103.6	.46
APN																				
Chalk River	100	92	94	90	98	2	.46	.42	1.15	.65	.67	0.01	0.12	0.28	0.48	0.88	1.31	5.54	90.8	.42
ELA	100	95	100	91	73	7	.27	.10	2.03	.37	.47	0.00	0.01	0.02	0.13	0.67	1.06	2.04	58.4	.16
Long Point	100	96	94	96	75		.63	.64	0.86	.84	.54	0.03	0.21	0.42	0.77	1.21	1.56	2.91	84.1	.53
APIOS-C																				
Bear Island	100	95	78	92	11	1	.47	.26	1.85	.46	.29	0.00	0.03	0.28	0.42	0.77	0.87	0.89	79.5	.38
Colchester	100	97	79	92	11		.67	.69	0.62	.84	.66	0.28	0.28	0.48	0.76	0.80	2.37	2.67	88.5	.59
Dalhousie Mills	100	88	76	84	10		.38	.35	0.67	.41	.24	0.08	0.10	0.26	0.36	0.56	0.91	0.95	98.8	.37
Dorion	100	100	88	100	12		.37	.37	0.71	.47	.35	0.13	0.14	0.24	0.28	0.88	1.03	1.03	64.2	.24
Port Stanley	100	82	80	84	10		.63	.62	0.64	.75	.51	0.22	0.23	0.38	0.65	0.90	1.85	1.92	78.9	.49
Ramsey	100	98	86	92	11		.36	.27	1.26	.39	.22	0.01	0.05	0.24	0.30	0.67	0.70	0.71	75.2	.27
Quebec																				
CANSAP																				
Maniwaki	100	100	81	100	12		.41	.34	1.19	.59	.65	0.04	0.05	0.13	0.43	0.89	1.96	2.32	88.8	.37
Sept Isles	91	100	83	91	11	3	.08	.02	1.89	.07	.12	0.00	0.00	0.01	0.02	0.18	0.32	0.36	120.1	.09
APN																				
Montmorency	100	96	94	82	119	11	.16	.06	1.78	.20	.31	0.00	0.01	0.01	0.07	0.24	0.64	1.69	130.2	.21

Calcium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CA Dep g/m2
Arizona																				
NADP																				
Organ Pipe Mon.	94	100	97	87	16		.52	.50	1.22	.94	1.27	0.04	0.06	0.25	0.57	0.80	3.98	4.40	18.4	.10
Arkansas																				
NADP																				
Fayetteville	98	95	99	85	40		.25	.26	0.96	.42	.50	0.06	0.08	0.14	0.22	0.48	1.46	1.97	106.6	.26
California																				
NADP																				
Bishop	92	79	103	75	12		.52	.78	1.48	1.71	2.16	0.05	0.06	0.30	0.86	2.19	6.49	7.53	11.2	.06
Hopland (Ukiah)	98	88	97	88	26		.05	.07	1.14	.18	.49	0.01	0.02	0.03	0.07	0.14	0.23	2.55	106.0	.05
Colorado																				
NADP																				
Alamosa	90	99	93	79	31		.41	.54	1.07	.94	1.07	0.11	0.13	0.22	0.46	1.37	2.74	4.42	22.6	.09
Pawnee	90	94	94	77	31		.45	.56	1.05	.93	1.05	0.08	0.15	0.23	0.57	1.19	1.98	5.13	33.7	.15
Rocky Mt. Nat Park	96	81	91	77	36		.38	.36	1.05	.55	.47	0.02	0.07	0.19	0.49	0.77	1.23	2.06	33.4	.13
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	98	59	2	.12	.12	0.91	.17	.14	0.02	0.03	0.07	0.14	0.21	0.37	0.72	89.1	.11
Florida																				
NADP																				
Bradford Forest	96	84	91	83	27		.23	.27	0.94	.51	1.02	0.06	0.11	0.14	0.20	0.48	1.13	5.40	89.6	.20
Georgia																				
NADP																				
Georgia Station	96	94	101	81	33	1	.15	.17	1.23	.33	.46	0.01	0.03	0.09	0.15	0.38	1.03	2.24	96.8	.15
Illinois																				
NADP																				
Argonne	96	94	98	81	41		.27	.33	0.86	.50	.62	0.06	0.11	0.16	0.32	0.53	0.88	2.96	92.9	.25
Bondville	98	98	97	85	42		.25	.29	1.01	.50	.70	0.03	0.08	0.14	0.29	0.54	1.31	3.64	100.3	.25
Dixon Springs	100	86	93	81	38		.21	.23	0.82	.31	.24	0.05	0.07	0.12	0.22	0.43	0.67	0.94	113.0	.24
MAP3s/PCN																				
Illinois	99	77	103	88	50	1	.23	.19	1.10	.34	.41	0.02	0.05	0.09	0.20	0.41	0.91	2.33	92.9	.21
Indiana																				
UAPSP																				
Fort Wayne	100	98	94	93	85	10	.29	.19	1.36	.44	.77	0.01	0.05	0.08	0.21	0.51	0.94	5.67	99.5	.29
Rockport	100	100	101	100	89	4	.16	.16	1.00	.26	.27	0.00	0.05	0.08	0.16	0.35	0.64	1.64	93.9	.15
Maine																				
NADP																				
Bridgton	100	94	99	88	44		.08	.09	0.98	.14	.14	0.01	0.02	0.05	0.08	0.20	0.38	0.62	108.1	.09
Caribou	96	75	94	76	38		.14	.19	0.98	.35	.69	0.02	0.07	0.10	0.17	0.33	0.54	4.34	118.5	.17
Greenville Station	97	78	92	90	46		.11	.13	0.96	.20	.20	0.02	0.03	0.07	0.13	0.21	0.53	0.81	113.2	.13
Massachusetts																				
UAPSP																				
Turners Falls	100	100	98	99	100	23	.08	.07	1.14	.13	.17	0.00	0.02	0.05	0.06	0.17	0.30	0.96	101.8	.08
Michigan																				
NADP																				
Kellogg	98	97	94	77	38		.30	.34	0.86	.48	.50	0.03	0.11	0.24	0.30	0.53	1.31	2.44	83.9	.25
Minnesota																				
NADP																				
Lamberton	94	98	83	85	35		.55	.65	0.87	.92	.78	0.10	0.22	0.39	0.52	1.47	1.96	2.96	53.5	.29
Marcell	100	97	90	85	41		.23	.28	0.76	.39	.44	0.08	0.12	0.17	0.21	0.44	0.72	2.11	77.7	.18

Calcium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration												Total Precip cm	CA Dep g/m2
							Wtd Mean mg/1	Geometric		Arithmetic		Percentiles mg/1								
								Mean mg/1	SD	Mean mg/1	SD mg/1	Min	10%	25%	50%	75%	90%	Max		
Mississippi																				
NADP																				
Meridian	100	91	88	77	36		.15	.19	1.22	.56	1.76	0.03	0.04	0.07	0.18	0.51	0.69	10.69	106.2	.16
Nebraska																				
NADP																				
Mead	92	93	96	79	34		.39	.48	1.01	.78	.87	0.09	0.13	0.19	0.45	1.16	1.62	4.37	71.3	.28
New Hampshire																				
NADP																				
Hubbard Brook	98	100	96	96	50	1	.13	.13	1.16	.30	.62	0.02	0.03	0.07	0.12	0.26	0.50	3.30	151.5	.19
New York																				
NADP																				
Aurora	98	83	90	81	41		.24	.25	1.01	.47	.80	0.05	0.07	0.13	0.22	0.40	0.83	4.22	94.9	.23
Chautauqua	98	99	94	96	47		.22	.21	1.07	.50	1.51	0.01	0.09	0.11	0.17	0.39	0.56	10.41	102.8	.23
Knobit	100	84	99	91	47		.19	.21	0.97	.36	.48	0.03	0.06	0.12	0.19	0.36	1.08	2.27	96.3	.19
Stilwell Lake	98	92	86	90	44		.15	.19	1.18	.36	.49	0.01	0.05	0.09	0.23	0.37	1.01	2.68	117.6	.17
MAP3s/PCN																				
Brookhaven	100	99	100	97	70	5	.10	.13	1.15	.22	.25	0.01	0.03	0.06	0.13	0.29	0.55	1.56	97.4	.10
Ithaca	100	97	95	98	71	4	.12	.13	1.05	.20	.18	0.02	0.03	0.07	0.12	0.29	0.39	0.92	122.2	.15
Whiteface	100	98	112	95	85	8	.10	.08	1.16	.15	.21	0.02	0.02	0.04	0.10	0.21	0.32	1.52	109.1	.11
North Carolina																				
NADP																				
Clinton Station	100	99	94	87	44		.10	.20	1.31	.48	.74	0.02	0.04	0.07	0.16	0.49	1.60	3.25	113.0	.12
Coweeta	98	88	94	88	43		.11	.18	1.17	.40	.65	0.03	0.05	0.07	0.13	0.39	1.28	3.36	132.9	.15
Finley (A)	100	91	95	77	34		.12	.17	1.00	.28	.32	0.03	0.05	0.08	0.15	0.33	0.80	1.36	76.5	.10
Lewiston	100	99	105	87	43		.13	.21	1.22	.53	1.10	0.04	0.05	0.08	0.14	0.41	1.54	6.44	79.5	.10
Piedmont Station	100	99	98	81	40		.14	.19	0.89	.31	.50	0.04	0.07	0.09	0.18	0.35	0.51	3.13	99.3	.14
R Triangle Inst	98	95	97	87	42		.15	.23	1.18	.51	1.04	0.03	0.06	0.10	0.17	0.64	1.14	6.65	90.7	.14
R Triangle Park	94	100	87	90	46		.14	.24	1.24	.58	.99	0.03	0.06	0.10	0.18	0.45	1.89	4.86	97.5	.13
UAPSP																				
Raleigh	100	99	92	95	59	17	.05	.06	1.00	.09	.09	0.00	0.02	0.05	0.07	0.13	0.24	0.42	81.3	.04
Ohio																				
NADP																				
Caldwell	100	100	101	96	47		.28	.33	0.95	.51	.57	0.02	0.12	0.19	0.29	0.60	1.08	2.83	90.6	.26
Delaware	98	100	111	90	42		.21	.29	0.90	.46	.56	0.07	0.10	0.16	0.24	0.56	1.40	2.89	78.8	.17
Wooster	94	94	99	87	42		.24	.31	0.95	.48	.49	0.03	0.10	0.18	0.31	0.51	1.33	1.95	79.7	.19
MAP3s/PCN																				
Oxford	100	98	103	95	69	3	.19	.17	1.07	.28	.30	0.02	0.04	0.09	0.20	0.32	0.64	2.01	76.0	.14
UAPSP																				
Zanesville	100	99	87	98	100	1	.20	.22	0.95	.34	.33	0.03	0.06	0.13	0.22	0.42	0.88	1.86	118.5	.24
Oregon																				
NADP																				
Alsea	100	86	100	83	37		.09	.13	1.13	.31	.67	0.02	0.04	0.07	0.11	0.18	0.70	3.38	179.8	.16
H.J. Andrews	100	99	97	90	38	1	.05	.06	1.37	.21	.56	0.01	0.01	0.03	0.05	0.11	0.35	3.08	245.1	.12
Schmidt Farm	95	94	98	88	37		.12	.13	1.16	.27	.42	0.02	0.03	0.05	0.11	0.25	1.33	1.57	86.7	.10
Pennsylvania																				
NADP																				
Leading Ridge	98	97	89	88	44		.19	.24	1.01	.37	.43	0.01	0.07	0.12	0.27	0.45	0.78	2.52	96.3	.19
MAP3s/PCN																				
Penn State	100	99	109	96	72	3	.21	.27	1.22	.47	.48	0.02	0.06	0.12	0.30	0.66	1.18	2.25	93.3	.19

Calcium

State / Network / Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Concentration: Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CA Dep g/m2
Tennessee																				
NADP																				
Elkmont	98	86	101	76	38		.13	.13	1.02	.26	.62	0.02	0.04	0.08	0.13	0.19	0.52	3.90	142.2	.18
Walker Branch	98	93	103	85	44		.18	.22	0.96	.34	.38	0.03	0.06	0.10	0.25	0.39	0.75	1.75	95.3	.17
MAP3s/PCN																				
Oak Ridge	99	98	109	98	63		.14	.17	0.99	.27	.28	0.02	0.05	0.08	0.17	0.36	0.68	1.36	95.1	.13
Texas																				
NADP																				
K-Bar	98	100	99	82	28		.31	.45	1.18	1.08	2.52	0.05	0.12	0.22	0.42	0.80	2.07	13.34	42.5	.13
Victoria	100	94	99	78	32		.17	.26	1.32	.78	1.97	0.03	0.06	0.10	0.23	0.52	1.64	10.76	113.6	.19
Virginia																				
MAP3s/PCN																				
Virginia	100	95	100	96	47	3	.10	.11	1.13	.19	.22	0.02	0.02	0.05	0.13	0.22	0.47	0.92	90.8	.09
Washington																				
NADP																				
Olympic Nat. Park	98	82	91	85	41		.07	.07	1.02	.13	.16	0.01	0.02	0.04	0.06	0.14	0.45	0.66	366.4	.26
West Virginia																				
NADP																				
Parsons	100	100	94	98	50		.29	.31	1.00	.52	.60	0.05	0.09	0.17	0.27	0.59	1.35	2.56	129.4	.37
Alberta																				
CANSAP																				
Edson	100	100	80	100	12		1.09	1.42	0.58	1.66	1.01	0.68	0.70	0.86	1.28	2.56	3.45	3.50	42.8	.46
Lethbridge	91	100	75	91	11		2.69	4.08	1.06	6.12	4.76	0.77	0.80	1.32	5.56	10.86	13.76	14.24	39.1	1.05
British Columbia																				
CANSAP																				
Port Hardy	92	100	84	92	11		.15	.15	0.22	.15	.03	0.10	0.10	0.12	0.15	0.16	0.21	0.21	188.2	.27
Revelstoke	92	100	82	92	11		.30	.30	0.68	.36	.20	0.09	0.10	0.15	0.34	0.52	0.68	0.70	87.1	.26
Terrace	100	100	92	100	12		.07	.07	0.66	.09	.06	0.03	0.03	0.04	0.06	0.14	0.20	0.20	110.6	.07
Manitoba																				
CANSAP																				
Bissett	92	100	86	92	11		.35	.40	0.64	.48	.31	0.14	0.16	0.26	0.35	0.67	1.05	1.05	48.4	.17
The Pas	100	100	78	100	12		.69	.85	0.65	1.06	.95	0.31	0.35	0.57	0.85	1.11	3.18	3.92	52.7	.36
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	95	100	12		.14	.10	0.64	.13	.12	0.05	0.06	0.06	0.09	0.13	0.42	0.49	153.1	.21
Newfoundland																				
CANSAP																				
Goose	91	100	77	91	11		.08	.08	0.37	.08	.02	0.03	0.04	0.06	0.08	0.10	0.11	0.11	115.5	.09
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	103	100	12	1	.10	.08	1.00	.11	.08	0.01	0.02	0.04	0.09	0.14	0.26	0.29	157.3	.15
Shelburne	100	100	91	100	12		.12	.10	0.42	.11	.05	0.05	0.06	0.07	0.12	0.14	0.20	0.21	152.7	.18
Truro	100	100	80	100	12		.22	.18	0.87	.27	.32	0.06	0.07	0.09	0.18	0.27	0.98	1.21	130.7	.28
APN																				
Kejimkujik	100	95	99	89	122	5	.08	.09	0.90	.14	.18	0.01	0.03	0.05	0.08	0.17	0.24	1.31	162.2	.13
Ontario																				
CANSAP																				
Atikokan	100	100	91	100	12		.46	.41	0.62	.49	.28	0.14	0.16	0.25	0.38	0.75	0.91	0.94	58.9	.27
Dorset	100	100	76	100	12		.42	.36	0.84	.51	.55	0.09	0.11	0.18	0.36	0.53	1.76	2.11	93.5	.40
ELA	100	100	87	100	12		.21	.25	0.91	.38	.38	0.09	0.10	0.12	0.19	0.61	1.11	1.12	68.3	.14
Harrow	93	100	81	93	12		.80	.99	0.84	1.40	1.38	0.33	0.33	0.48	0.99	1.45	4.44	4.84	105.9	.85

Calcium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Concentration Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CA Dep g/m2
Kingston	100	100	77	100	12		.69	.75	0.68	.96	.84	0.36	0.38	0.45	0.57	1.13	2.74	2.83	98.3	.68
Mount Forest	92	100	79	92	11		.76	.66	0.91	.95	.87	0.19	0.19	0.34	0.52	1.15	2.61	2.64	88.4	.67
Peterborough	100	100	86	100	12		.57	.58	0.90	.88	.99	0.20	0.21	0.29	0.47	1.19	3.08	3.68	87.5	.50
Simcoe	100	100	84	100	12		.53	.55	0.65	.69	.57	0.28	0.29	0.36	0.42	0.84	1.89	1.93	88.7	.47
APIOS-D																				
Balsam Lake	100	84	94	90	81		.25	.17	1.32	.38	.49	0.01	0.03	0.07	0.14	0.56	1.18	2.21	73.6	.18
Charleston Lake	93	92	93	76	105		.18	.17	1.20	.36	.62	0.02	0.03	0.07	0.17	0.33	0.97	5.21	99.8	.18
Dorset	100	95	90	91	112	2	.19	.11	1.27	.23	.33	0.01	0.02	0.04	0.11	9.25	0.58	2.01	92.8	.17
Graham Lake	100	83	87	87	95	1	.35	.24	1.26	.50	.83	0.01	0.04	0.10	0.22	0.61	1.21	6.62	103.0	.36
Longwoods	100	89	91	88	81		.40	.35	0.95	.54	.60	0.03	0.10	0.21	0.35	0.64	1.26	3.41	89.7	.36
Melborne	100	92	91	90	83		.27	.26	1.00	.43	.51	0.04	0.06	0.13	0.23	0.50	0.95	2.71	80.5	.22
Nithgrove	93	90	84	83	93		.24	.21	1.09	.38	.50	0.02	0.06	0.10	0.20	0.47	1.02	3.81	88.1	.21
Railton	100	88	92	90	81		.33	.29	1.18	.55	.77	0.02	0.06	0.12	0.30	0.74	1.43	5.81	100.9	.33
Raven Lake	91	88	100	79	80		.27	.22	1.25	.46	.61	0.02	0.04	0.08	0.23	0.60	1.05	3.21	78.9	.21
Wellesly	93	91	94	79	78		.25	.25	1.05	.40	.37	0.03	0.06	0.10	0.25	0.62	0.95	1.72	84.5	.21
Whitman Creek	99	83	92	89	85	1	.30	.20	1.35	.47	.75	0.01	0.04	0.08	0.21	0.56	1.01	4.61	103.6	.31
APN																				
Chalk River	100	89	94	85	83	1	.27	.28	0.90	.41	.37	0.03	0.10	0.16	0.26	0.54	1.02	1.79	90.8	.24
ELA	100	94	100	89	66	2	.23	.22	1.20	.48	.88	0.01	0.06	0.11	0.20	0.40	1.14	5.61	58.4	.14
Long Point	100	95	94	95	70	1	.57	.51	1.05	.89	1.19	0.05	0.15	0.25	0.48	1.04	2.04	7.66	84.1	.48
APIOS-C																				
Campbellford	100	84	80	84	10		.35	.34	0.81	.44	.34	0.07	0.08	0.21	0.34	0.60	1.18	1.22	83.7	.29
Colchester	100	95	80	83	10		.47	.48	0.41	.51	.18	0.22	0.23	0.33	0.59	0.67	0.69	0.69	88.5	.42
Dalhousie Mills	100	85	81	91	11		.34	.32	0.59	.37	.22	0.12	0.13	0.20	0.29	0.62	0.78	0.81	98.8	.34
Dorion	100	100	88	100	12		.18	.16	0.76	.20	.13	0.06	0.06	0.07	0.19	0.34	0.42	0.44	64.2	.12
Ramsey	100	98	86	92	11		.21	.16	0.66	.20	.15	0.06	0.06	0.08	0.16	0.21	0.52	0.55	75.2	.16
Quebec																				
CANSAP																				
Maniwaki	100	100	81	100	12		.29	.27	0.74	.34	.28	0.07	0.09	0.16	0.23	0.51	0.91	0.97	88.8	.26
Sept Isles	91	100	83	91	11		.14	.14	0.32	.14	.04	0.07	0.08	0.10	0.14	0.17	0.21	0.21	120.1	.17
APN																				
Montmorency	100	95	94	82	116	5	.10	.10	0.95	.16	.19	0.01	0.04	0.05	0.09	0.19	0.36	1.10	130.2	.12

1981 Annual Summary

18-Jul-1984
Page 1

Chloride

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration												Total Precip cm	CL Dep g/m2
							Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max		
Arizona																				
NADP																				
Organ Pipe Mon.	94	100	97	87	16		.67	.66	0.98	1.00	.86	0.14	0.16	0.32	0.62	1.88	2.27	2.94	18.4	.12
Arkansas																				
NADP																				
Fayetteville	98	95	99	85	40		.15	.16	0.83	.23	.23	0.03	0.05	0.11	0.14	0.24	0.62	1.02	106.6	.16
California																				
NADP																				
Bishop	92	79	103	75	12	1	.19	.42	1.43	.83	.85	0.05	0.05	0.17	0.54	1.38	2.41	2.43	11.2	.02
Hopland (Ukiah)	98	88	97	88	26		.63	.33	0.84	.48	.47	0.12	0.13	0.15	0.29	0.76	1.21	1.88	106.0	.67
Colorado																				
NADP																				
Alamosa	90	99	93	79	31		.17	.24	0.98	.38	.42	0.04	0.06	0.13	0.20	0.50	1.03	1.73	22.6	.04
Pawnee	90	94	94	77	31	2	.15	.17	1.37	.39	.52	0.02	0.03	0.07	0.13	0.56	1.34	1.96	33.7	.05
Rocky Mt. Nat Park	96	81	91	77	36	2	.15	.16	1.05	.26	.29	0.02	0.05	0.09	0.16	0.32	0.59	1.53	33.4	.05
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	98	59		1.39	1.08	0.96	1.65	1.59	0.13	0.35	0.50	1.10	2.13	4.26	7.03	89.1	1.24
Florida																				
NADP																				
Bradford Forest	96	84	91	83	27		.63	.67	1.03	1.44	3.24	0.17	0.21	0.32	0.54	1.17	2.44	17.12	89.6	.56
Georgia																				
NADP																				
Georgia Station	96	94	101	81	33		.32	.32	0.82	.43	.33	0.04	0.10	0.19	0.34	0.58	1.01	1.18	96.8	.31
Illinois																				
NADP																				
Argonne	96	94	98	81	41	2	.14	.16	0.98	.24	.22	0.02	0.06	0.09	0.15	0.30	0.66	0.90	92.9	.13
Bondville	98	98	97	85	42	1	.15	.16	0.84	.23	.26	0.03	0.06	0.11	0.14	0.31	0.46	1.35	100.3	.15
Dixon Springs	100	86	93	81	38		.23	.26	0.79	.36	.31	0.06	0.09	0.15	0.24	0.40	0.88	1.39	113.0	.26
MAP3s/PCN																				
Illinois	99	77	103	88	50	1	.20	.17	0.84	.26	.35	0.02	0.07	0.11	0.17	0.28	0.53	2.41	92.9	.19
Indiana																				
UAPSP																				
Fort Wayne	100	98	94	94	87	1	.14	.12	0.92	.18	.17	0.01	0.03	0.07	0.12	0.26	0.38	1.11	99.5	.14
Rockport	100	100	101	99	88		.20	.16	0.82	.22	.23	0.01	0.06	0.09	0.14	0.25	0.43	1.48	93.9	.19
Maine																				
NADP																				
Bridgton	100	94	99	88	44	4	.48	.15	1.45	.45	.99	0.02	0.03	0.06	0.13	0.31	1.14	5.99	108.1	.52
Caribou	96	75	94	76	38	3	.15	.15	1.15	.27	.33	0.02	0.05	0.09	0.16	0.29	0.75	1.37	118.5	.18
Greenville Station	97	78	92	90	46	2	.23	.15	1.20	.29	.41	0.02	0.04	0.06	0.15	0.30	0.98	1.78	113.2	.26
Massachusetts																				
UAPSP																				
Turners Falls	100	100	98	99	100	2	.35	.17	1.18	.38	.79	0.01	0.04	0.08	0.17	0.36	0.66	6.27	101.8	.35
Michigan																				
NADP																				
Kellogg	98	97	94	77	38	1	.17	.15	0.92	.23	.24	0.02	0.06	0.09	0.14	0.25	0.52	1.15	83.9	.14
Minnesota																				
NADP																				
Lamberton	94	98	83	85	35		.19	.19	0.98	.33	.45	0.04	0.06	0.09	0.17	0.35	1.01	2.09	53.5	.10
Marcell	100	97	90	85	41	2	.08	.11	1.13	.21	.29	0.02	0.03	0.06	0.09	0.22	0.63	1.51	77.7	.06

Chloride

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CL Dep g/m2
Mississippi																				
NADP																				
Meridian	100	91	88	77	36		.34	.38	0.89	.56	.54	0.04	0.11	0.22	0.37	0.66	1.36	2.34	106.2	.36
Nebraska																				
NADP																				
Mead	92	93	96	79	34	2	.14	.22	1.11	.38	.42	0.02	0.06	0.11	0.24	0.50	0.96	1.97	71.3	.10
New Hampshire																				
NADP																				
Hubbard Brook	98	100	96	96	50	4	.19	.12	1.23	.25	.32	0.02	0.03	0.06	0.10	0.39	0.71	1.30	151.5	.29
New York																				
NADP																				
Aurora	98	83	90	81	41		.17	.20	1.00	.34	.46	0.04	0.05	0.09	0.18	0.32	0.96	2.10	94.9	.16
Chautauqua	98	99	94	96	47		.20	.22	0.93	.45	1.16	0.04	0.08	0.13	0.19	0.35	0.83	7.97	102.8	.20
Knobit	100	84	99	91	47		.20	.20	0.84	.28	.25	0.03	0.07	0.12	0.17	0.32	0.79	0.98	96.3	.19
Stilwell Lake	98	92	86	90	44		.88	.35	0.99	.64	1.31	0.04	0.10	0.18	0.32	0.62	1.12	8.75	117.6	1.04
MAP3s/PCN																				
Brookhaven	100	99	100	97	70		1.14	.90	0.96	1.44	1.75	0.06	0.32	0.46	0.78	1.72	3.28	11.36	97.4	1.11
Ithaca	100	97	95	98	71		.18	.20	0.64	.24	.17	0.04	0.09	0.13	0.19	0.30	0.50	0.92	122.2	.23
Whiteface	100	98	112	95	85	4	.10	.11	0.79	.14	.11	0.02	0.05	0.08	0.11	0.17	0.32	0.71	109.1	.11
North Carolina																				
NADP																				
Clinton Station	100	99	94	87	44		.34	.50	1.23	1.14	1.81	0.07	0.10	0.21	0.43	1.01	3.67	8.46	113.0	.38
Coweeta	98	88	94	88	43		.19	.21	0.99	.38	.59	0.04	0.07	0.10	0.18	0.37	0.86	3.17	132.9	.25
Finley (A)	100	91	95	77	34		.25	.27	0.86	.40	.47	0.04	0.12	0.15	0.21	0.40	1.26	2.09	76.5	.19
Lewiston	100	99	105	87	43		.30	.38	0.92	.61	.77	0.07	0.13	0.22	0.31	0.69	1.40	4.41	79.5	.24
Piedmont Station	100	99	98	81	40		.36	.32	0.90	.46	.42	0.04	0.09	0.15	0.38	0.59	1.03	1.97	99.3	.36
R Triangle Inst	98	95	97	87	42		.30	.37	0.94	.58	.66	0.09	0.12	0.16	0.30	0.86	1.24	3.55	90.7	.27
R Triangle Park	94	100	87	92	47		.26	.33	1.04	.61	.94	0.06	0.09	0.16	0.25	0.57	1.72	5.81	97.5	.26
UAPSP																				
Raleigh	100	98	92	95	59		.27	.21	0.89	.34	.44	0.03	0.08	0.11	0.22	0.34	0.57	2.56	81.3	.22
Ohio																				
NADP																				
Caldwell	100	100	101	96	47		.22	.26	0.82	.38	.43	0.04	0.11	0.14	0.23	0.39	0.93	2.32	90.6	.20
Delaware	98	100	111	90	42	1	.15	.18	0.96	.28	.28	0.02	0.06	0.09	0.19	0.34	0.60	1.48	78.8	.12
Wooster	94	94	99	87	42		.19	.22	0.99	.36	.43	0.04	0.05	0.10	0.21	0.39	0.88	1.97	79.7	.15
MAP3s/PCN																				
Oxford	100	98	103	95	69		.23	.21	0.74	.27	.20	0.04	0.08	0.13	0.21	0.35	0.57	0.85	76.0	.18
UAPSP																				
Zanesville	100	99	87	99	102		.20	.20	0.88	.31	.46	0.04	0.06	0.10	0.18	0.31	0.64	4.00	118.5	.24
Oregon																				
NADP																				
Alsea	100	86	100	83	37		1.43	1.09	1.16	1.74	1.74	0.03	0.34	0.58	1.43	2.20	3.61	9.91	179.8	2.56
H.J. Andrews	100	99	97	90	38	1	.33	.22	1.00	.33	.34	0.01	0.07	0.12	0.24	0.45	0.62	2.06	245.1	.80
Schmidt Farm	95	94	98	88	37		.62	.45	0.99	.65	.50	0.02	0.13	0.25	0.56	1.03	1.29	1.97	86.7	.54
Pennsylvania																				
NADP																				
Leading Ridge	98	97	89	88	44		.25	.27	0.65	.34	.27	0.10	0.12	0.16	0.23	0.45	0.72	1.45	96.3	.24
MAP3s/PCN																				
Penn State	100	100	109	97	75		.32	.38	0.92	.56	.50	0.04	0.11	0.22	0.33	0.78	1.16	2.77	93.3	.29

Chloride

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CL Dep g/m2
Tennessee																				
NADP																				
Elkmont	98	86	101	76	38	1	.13	.12	0.78	.17	.17	0.04	0.05	0.07	0.11	0.22	0.38	0.92	142.2	.18
Walker Branch	98	93	103	85	44		.26	.25	0.80	.34	.28	0.03	0.09	0.16	0.23	0.44	0.74	1.39	95.3	.25
MAP3s/PCN																				
Oak Ridge	99	98	109	98	63		.29	.28	0.61	.34	.27	0.10	0.12	0.19	0.27	0.43	0.62	1.56	95.1	.27
Texas																				
NADP																				
K-Bar	98	100	99	82	28	1	.11	.15	1.05	.25	.32	0.02	0.04	0.08	0.14	0.31	0.64	1.38	42.5	.04
Victoria	100	94	99	78	32		.74	.91	1.19	2.05	3.92	0.17	0.22	0.32	0.76	2.32	4.48	21.71	113.6	.84
Virginia																				
MAP3s/PCN																				
Virginia	100	95	100	96	48		.49	.24	0.85	.40	.66	0.05	0.10	0.14	0.19	0.42	0.66	3.90	90.8	.45
Washington																				
NADP																				
Olympic Nat. Park	98	82	91	85	41	1	1.32	.59	1.13	.98	1.17	0.02	0.21	0.29	0.63	1.31	1.76	7.06	366.4	4.84
West Virginia																				
NADP																				
Parsons	100	100	94	98	50	2	.16	.16	0.95	.24	.28	0.02	0.06	0.09	0.17	0.26	0.46	1.66	129.4	.20
Alberta																				
CANSAP																				
Edson	100	100	80	100	12	1	.20	.29	0.77	.38	.30	0.10	0.10	0.17	0.35	0.58	0.99	1.11	42.8	.09
Lethbridge	91	100	75	91	11	1	.39	.34	1.33	.69	.83	0.05	0.06	0.20	0.24	0.92	2.48	2.65	39.1	.15
British Columbia																				
CANSAP																				
Port Hardy	92	100	84	92	11		2.80	1.81	0.80	2.40	1.84	0.60	0.64	0.80	2.50	3.10	6.00	6.30	188.2	5.26
Revelstoke	92	100	82	92	11	2	.21	.20	0.74	.23	.12	0.05	0.07	0.20	0.20	0.31	0.50	0.50	87.1	.19
Terrace	100	100	92	100	12	3	.20	.20	0.81	.25	.14	0.05	0.07	0.13	0.25	0.48	0.50	0.50	110.6	.22
Manitoba																				
CANSAP																				
Bissett	92	100	86	92	11	2	.18	.16	0.82	.21	.18	0.05	0.06	0.10	0.20	0.25	0.66	0.70	48.4	.09
The Pas	100	100	78	100	12	1	.21	.27	0.97	.41	.41	0.06	0.07	0.10	0.30	0.58	1.28	1.40	52.7	.11
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	95	100	12		.36	.33	0.76	.41	.29	0.06	0.10	0.21	0.30	0.58	0.97	1.00	153.1	.55
Newfoundland																				
CANSAP																				
Goose	91	100	77	91	11		.42	.34	0.69	.43	.35	0.10	0.12	0.20	0.30	0.40	1.19	1.26	115.5	.49
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	103	100	12		1.11	.74	0.83	1.00	.76	0.20	0.23	0.33	0.70	1.88	2.17	2.20	157.3	1.74
Shelburne	100	100	91	100	12		2.37	1.61	0.92	2.28	1.91	0.40	0.40	0.75	1.90	3.32	6.06	6.90	152.7	3.62
Truro	100	100	80	100	12		1.33	.94	0.91	1.34	1.08	0.30	0.30	0.40	0.91	2.37	3.16	3.40	130.7	1.73
APN																				
Kejimkujik	100	96	99	92	133	41	.80	.42	1.79	1.66	3.82	0.05	0.05	0.20	0.50	1.55	3.32	29.80	162.2	1.30
Ontario																				
CANSAP																				
Atikokan	100	100	91	100	12	1	.27	.31	0.89	.47	.54	0.08	0.09	0.20	0.36	0.65	1.65	2.06	58.9	.16
Dorset	100	100	76	100	12	1	.26	.20	0.90	.26	.19	0.05	0.06	0.11	0.21	0.38	0.64	0.70	93.5	.24
ELA	100	100	87	100	12	3	.27	.21	1.15	.33	.25	0.05	0.05	0.13	0.33	0.58	0.76	0.78	68.3	.18
Harrow	93	100	81	93	12	2	.36	.33	1.13	.56	.64	0.05	0.10	0.20	0.40	0.50	1.93	2.00	105.9	.38

Chloride

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CL Dep g/m2
Kingston	100	100	77	100	12	1	.42	.35	1.11	.56	.57	0.05	0.07	0.30	0.40	0.58	1.85	2.12	98.3	.41
Mount Forest	92	100	79	92	11	2	.35	.21	1.41	.46	.53	0.05	0.05	0.10	0.20	1.10	1.38	1.40	88.4	.31
Peterborough	100	100	86	100	12	3	.29	.25	1.11	.35	.20	0.05	0.05	0.21	0.40	0.50	0.64	0.65	87.5	.25
Simcoe	100	100	84	100	12	1	.41	.42	0.69	.53	.49	0.10	0.16	0.33	0.49	0.50	1.61	2.04	88.7	.37
APIOS-D																				
Balsam Lake	100	91	92	96	101	7	.18	.12	1.27	.23	.25	0.01	0.02	0.07	0.13	0.32	0.51	1.69	73.6	.13
Charleston Lake	93	94	93	82	128	6	.16	.14	1.22	.26	.32	0.01	0.02	0.08	0.17	0.32	0.57	2.30	99.8	.16
Dorset	100	100	88	97	133	6	.13	.11	1.16	.19	.25	0.01	0.02	0.06	0.13	0.24	0.39	2.10	92.8	.12
Graham Lake	100	93	87	93	118		.19	.20	0.91	.28	.24	0.02	0.05	0.13	0.22	0.36	0.60	1.35	103.0	.20
Longwoods	100	98	91	95	104	2	.19	.20	1.07	.33	.37	0.01	0.05	0.12	0.22	0.36	0.69	2.35	89.7	.17
Melborne	100	96	90	94	100	4	.20	.23	1.13	.37	.37	0.01	0.08	0.14	0.26	0.48	0.77	2.10	80.5	.16
Nithgrove	93	98	84	90	117	4	.14	.15	1.09	.24	.27	0.01	0.04	0.08	0.17	0.30	0.52	1.80	88.1	.13
North Easthope	98	95	97	87	140	4	.21	.22	1.24	.42	.67	0.01	0.04	0.12	0.24	0.46	0.90	6.30	90.1	.19
Railton	100	96	91	95	102		.20	.26	0.88	.36	.33	0.02	0.08	0.14	0.27	0.48	0.76	2.10	100.9	.21
Raven Lake	91	91	99	86	103	1	.19	.21	0.97	.32	.32	0.01	0.07	0.12	0.20	0.40	0.64	2.20	78.9	.15
Wellesly	93	93	93	86	104	5	.14	.17	1.29	.32	.34	0.01	0.03	0.10	0.20	0.33	0.91	2.05	84.5	.12
Whitman Creek	99	81	91	92	94	4	.20	.16	1.07	.25	.30	0.01	0.06	0.10	0.16	0.30	0.46	2.20	103.6	.21
APN																				
Chalk River	100	95	93	96	123	36	.30	.31	1.74	.97	1.94	0.05	0.05	0.05	0.60	1.10	2.06	16.30	90.8	.27
ELA	100	100	101	99	102	48	.29	.18	1.76	.90	2.77	0.05	0.05	0.05	0.30	0.83	1.80	24.70	58.4	.17
Long Point	100	97	93	98	79	33	.33	.18	1.70	.59	1.10	0.05	0.05	0.05	0.30	0.70	1.30	7.60	84.1	.28
APIOS-C																				
Bear Island	100	95	78	92	11		.11	.09	1.22	.16	.19	0.01	0.01	0.04	0.09	0.25	0.58	0.65	79.5	.09
Campbellford	100	91	79	92	11		.21	.21	0.54	.24	.14	0.09	0.10	0.14	0.19	0.27	0.50	0.50	83.7	.17
Colchester	100	100	79	100	12		.24	.28	0.88	.38	.35	0.04	0.08	0.17	0.30	0.38	1.15	1.27	88.5	.21
Dalhousie Mills	100	85	81	91	11		.20	.20	0.65	.24	.16	0.07	0.07	0.14	0.22	0.34	0.59	0.65	98.8	.20
Dorion	100	100	88	100	12	1	.06	.05	1.02	.07	.05	0.01	0.01	0.03	0.07	0.09	0.16	0.17	64.2	.04
Ramsey	100	98	86	92	11		.08	.07	0.70	.09	.05	0.02	0.02	0.04	0.09	0.14	0.16	0.16	75.2	.06
Quebec																				
CANSAP																				
Maniwaki	100	100	81	100	12	1	.26	.23	0.98	.34	.34	0.05	0.07	0.14	0.20	0.40	1.10	1.31	88.8	.23
Sept Isles	91	100	83	91	11		1.15	1.02	0.62	1.23	.88	0.40	0.42	0.60	1.20	1.40	3.20	3.60	120.1	1.38
APN																				
Montmorency	100	99	93	94	162	93	.09	.11	1.48	.33	.60	0.05	0.05	0.05	0.10	0.50	0.87	4.30	130.2	.12

1981 Annual Summary

Sodium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration												Total Precip cm	NA Dep g/m2
							Wtd Mean mg/l	Geometric		Arithmetic		Percentiles mg/l								
								Mean mg/l	SD	Mean mg/l	SD mg/l	Min	10%	25%	50%	75%	90%	Max		
Arizona																				
NADP																				
Organ Pipe Mon.	94	100	97	87	16		.70	.44	1.44	1.77	5.04	0.03	0.07	0.19	0.40	0.99	7.08	20.60	18.4	.13
Arkansas																				
NADP																				
Fayetteville	98	95	99	85	40		.10	.08	1.04	.14	.16	0.00	0.02	0.05	0.08	0.16	0.37	0.65	106.6	.10
California																				
NADP																				
Bishop	92	79	103	75	12		.51	.57	1.32	1.07	1.09	0.06	0.06	0.26	0.62	1.99	3.05	3.19	11.2	.06
Hopland (Ukiah)	98	88	97	88	26		.34	.19	0.94	.29	.30	0.04	0.06	0.10	0.15	0.41	0.93	1.05	106.0	.36
Colorado																				
NADP																				
Alamosa	90	99	93	79	31		.28	.34	1.18	.71	1.24	0.05	0.07	0.14	0.26	0.97	1.69	6.78	22.6	.06
Pawnee	90	94	94	77	31		.12	.13	1.43	.35	.53	0.01	0.03	0.04	0.11	0.35	1.32	1.96	33.7	.04
Rocky Mt. Nat Park	96	81	91	77	36		.12	.11	1.22	.22	.32	0.01	0.02	0.04	0.09	0.31	0.59	1.71	33.4	.04
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	98	59		.76	.55	1.15	.92	.90	0.01	0.10	0.32	0.62	1.22	2.30	3.77	89.1	.67
Florida																				
NADP																				
Bradford Forest	96	84	91	83	27		.48	.42	0.94	.74	1.23	0.12	0.15	0.20	0.33	0.68	1.99	6.30	89.6	.43
Georgia																				
NADP																				
Georgia Station	96	94	101	81	33		.16	.17	0.89	.25	.22	0.03	0.06	0.08	0.16	0.40	0.66	0.77	96.8	.16
Illinois																				
NADP																				
Argonne	96	94	98	81	41		.09	.09	1.00	.14	.15	0.01	0.03	0.04	0.10	0.17	0.39	0.57	92.9	.08
Bondville	98	98	97	85	42		.07	.08	0.97	.12	.15	0.01	0.02	0.04	0.08	0.15	0.23	0.84	100.3	.07
Dixon Springs	100	86	93	81	38		.11	.12	0.94	.18	.16	0.01	0.03	0.06	0.12	0.23	0.43	0.70	113.0	.12
MAP3s/PCN																				
Illinois	99	77	103	88	50	4	.10	.04	1.27	.13	.42	0.01	0.01	0.02	0.05	0.08	0.33	2.99	92.9	.09
Indiana																				
UAPSP																				
Fort Wayne	100	98	94	93	85	40	.06	.03	1.37	.09	.15	-0.04	0.01	0.02	0.03	0.11	0.29	0.72	99.5	.06
Rockport	100	100	101	100	89	33	.08	.04	1.29	.09	.14	-0.05	0.02	0.02	0.04	0.10	0.21	0.69	93.9	.07
Maine																				
NADP																				
Bridgton	100	94	99	88	44		.28	.11	1.23	.28	.55	0.01	0.03	0.05	0.08	0.25	0.76	3.30	108.1	.30
Caribou	96	75	94	76	38		.08	.10	1.12	.19	.33	0.01	0.02	0.05	0.09	0.17	0.38	1.97	118.5	.09
Greenville Station	97	78	92	90	46		.16	.13	1.01	.23	.32	0.03	0.04	0.06	0.11	0.22	0.63	1.72	113.2	.18
Massachusetts																				
UAPSP																				
Turners Falls	100	100	98	99	100	29	.19	.07	1.55	.23	.49	-0.02	0.02	0.02	0.07	0.20	0.57	3.51	101.8	.20
Michigan																				
NADP																				
Kellogg	98	97	94	77	38		.07	.08	0.99	.14	.22	0.01	0.02	0.04	0.07	0.15	0.29	1.13	83.9	.06
Minnesota																				
NADP																				
Lamberton	94	98	83	85	35		.17	.14	1.07	.27	.37	0.03	0.04	0.06	0.10	0.32	0.84	1.50	53.5	.09
Marcell	100	97	90	85	41		.10	.08	1.28	.23	.44	0.02	0.02	0.03	0.05	0.13	0.61	2.10	77.7	.07

Sodium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NA Dep g/m2
							Concentration					Percentiles mg/l								
Mississippi																				
NADP																				
Meridian	100	91	88	77	36		.19	.23	0.83	.33	.31	0.06	0.07	0.12	0.22	0.46	0.76	1.31	106.2	.21
Nebraska																				
NADP																				
Mead	92	93	96	79	34		.11	.17	1.09	.30	.38	0.01	0.04	0.08	0.17	0.33	0.90	1.53	71.3	.08
New Hampshire																				
NADP																				
Hubbard Brook	98	100	96	96	50		.12	.08	1.11	.15	.21	0.01	0.02	0.04	0.06	0.13	0.41	1.12	151.5	.18
New York																				
NADP																				
Aurora	98	83	90	81	41		.08	.09	1.19	.21	.40	0.01	0.02	0.04	0.08	0.15	0.56	1.96	94.9	.08
Chautauqua	98	99	94	96	47		.12	.10	1.11	.23	.59	0.01	0.02	0.05	0.08	0.20	0.42	3.99	102.8	.12
Knobit	100	84	99	91	47		.11	.11	0.83	.17	.19	0.02	0.04	0.07	0.11	0.14	0.48	0.91	96.3	.10
Stilwell Lake	98	92	86	90	44		.47	.17	0.97	.32	.70	0.02	0.05	0.10	0.14	0.31	0.52	4.68	117.6	.55
MAP3s/PCN																				
Brookhaven	100	99	100	97	71		.62	.48	1.05	.81	.95	0.03	0.12	0.25	0.44	1.01	1.90	5.43	97.4	.60
Ithaca	100	97	95	98	71	10	.05	.04	1.16	.08	.18	0.01	0.01	0.02	0.04	0.08	0.13	1.52	122.2	.06
Whiteface	100	97	112	95	84	12	.03	.03	1.07	.05	.07	0.01	0.01	0.01	0.03	0.06	0.12	0.39	109.1	.03
North Carolina																				
NADP																				
Clinton Station	100	99	94	87	44		.20	.30	1.40	.88	1.59	0.03	0.05	0.11	0.22	0.62	3.39	6.89	113.0	.22
Coweeta	98	88	94	88	43	1	.10	.12	1.37	.30	.55	0.00	0.03	0.06	0.11	0.21	1.06	2.72	132.9	.14
Finley (A)	100	91	95	77	34		.15	.15	0.97	.25	.31	0.02	0.06	0.07	0.12	0.33	0.77	1.36	76.5	.12
Lewiston	100	99	105	87	43		.18	.24	0.99	.39	.49	0.04	0.07	0.12	0.23	0.47	1.09	2.62	79.5	.14
Piedmont Station	100	99	98	81	40		.20	.17	0.98	.26	.26	0.02	0.04	0.07	0.18	0.39	0.51	1.12	99.3	.20
R Triangle Inst	98	95	97	87	42		.16	.19	1.06	.34	.45	0.03	0.05	0.08	0.17	0.50	0.72	2.48	90.7	.15
R Triangle Park	94	100	87	90	46		.15	.16	1.21	.39	.84	0.01	0.04	0.08	0.12	0.37	0.67	5.43	97.5	.15
UAPSP																				
Raleigh	100	99	92	95	59	14	.13	.06	1.37	.16	.27	0.00	0.02	0.02	0.07	0.15	0.35	1.43	81.3	.11
Ohio																				
NADP																				
Caldwell	100	100	101	96	47		.13	.11	1.08	.20	.27	0.01	0.03	0.05	0.11	0.18	0.61	1.12	90.6	.12
Delaware	98	100	111	90	42		.09	.10	1.05	.16	.17	0.01	0.02	0.04	0.10	0.20	0.42	0.86	78.8	.07
Wooster	94	94	99	87	42		.08	.10	1.16	.21	.38	0.01	0.02	0.05	0.09	0.23	0.37	2.31	79.7	.07
MAP3s/PCN																				
Oxford	100	98	103	95	69	1	.10	.07	1.13	.13	.14	0.01	0.02	0.03	0.07	0.16	0.41	0.55	76.0	.08
UAPSP																				
Zanesville	100	99	87	98	100	35	.09	.05	1.48	.14	.21	0.00	0.02	0.02	0.06	0.18	0.40	1.25	118.5	.11
Oregon																				
NADP																				
Alsea	100	86	100	83	37		.83	.69	1.17	1.18	1.29	0.01	0.20	0.34	0.73	1.50	3.49	5.89	179.8	1.49
H.J. Andrews	100	99	97	90	38		.19	.13	0.95	.20	.23	0.01	0.03	0.07	0.16	0.25	0.34	1.40	245.1	.47
Schmidt Farm	95	94	98	88	37		.35	.27	1.07	.42	.34	0.01	0.07	0.11	0.32	0.65	1.00	1.30	86.7	.31
Pennsylvania																				
NADP																				
Leading Ridge	98	97	89	88	44		.12	.13	0.70	.17	.15	0.03	0.05	0.08	0.13	0.18	0.35	0.90	96.3	.12
MAP3s/PCN																				
Penn State	100	99	109	96	73	5	.14	.12	1.19	.20	.19	0.01	0.02	0.07	0.14	0.29	0.45	0.97	93.3	.13

Sodium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NA Dep g/m2
Tennessee																				
NADP																				
Elkmont	98	86	101	76	38		.08	.06	0.99	.10	.14	0.01	0.01	0.04	0.06	0.10	0.20	0.72	142.2	.11
Walker Branch	98	93	103	85	44		.11	.11	0.92	.17	.24	0.01	0.05	0.06	0.10	0.17	0.31	1.26	95.3	.11
MAP3s/PCN																				
Oak Ridge	99	98	109	98	63	1	.13	.08	1.05	.15	.20	0.01	0.02	0.04	0.09	0.16	0.34	1.10	95.1	.12
Texas																				
NADP																				
K-Bar	98	100	99	82	28	1	.09	.10	1.44	.23	.38	0.00	0.03	0.04	0.11	0.27	0.52	1.85	42.5	.04
Victoria	100	94	99	78	32		.41	.50	1.30	1.21	2.28	0.03	0.12	0.18	0.46	1.30	3.06	12.40	113.6	.47
Virginia																				
MAP3s/PCN																				
Virginia	100	95	100	96	48	2	.27	.08	1.24	.20	.42	0.01	0.02	0.04	0.09	0.18	0.42	2.53	90.8	.24
Washington																				
NADP																				
Olympic Nat. Park	98	82	91	85	41	1	.72	.32	1.35	.56	.60	0.00	0.08	0.17	0.45	0.70	1.22	3.47	366.4	2.64
West Virginia																				
NADP																				
Parsons	100	100	94	98	50		.08	.07	0.99	.11	.16	0.01	0.02	0.04	0.06	0.15	0.27	1.00	129.4	.10
Alberta																				
CANSAP																				
Edson	100	100	80	100	12		.17	.24	0.94	.36	.42	0.04	0.06	0.13	0.23	0.35	1.31	1.57	42.8	.07
Lethbridge	91	100	75	91	11		.29	.29	1.01	.48	.58	0.09	0.09	0.13	0.23	0.62	1.78	1.92	39.1	.11
British Columbia																				
CANSAP																				
Port Hardy	92	100	84	92	11		1.56	1.02	0.81	1.34	1.01	0.26	0.32	0.53	1.44	1.74	3.29	3.43	188.2	2.93
Revelstoke	92	100	82	92	11		.16	.16	0.75	.21	.20	0.04	0.05	0.10	0.17	0.20	0.67	0.75	87.1	.14
Terrace	100	100	92	100	12		.12	.11	0.66	.14	.09	0.04	0.04	0.06	0.13	0.21	0.29	0.32	110.6	.13
Manitoba																				
CANSAP																				
Bissett	92	100	86	92	11		.09	.10	0.66	.12	.08	0.04	0.04	0.06	0.09	0.15	0.27	0.27	48.4	.04
The Pas	100	100	78	100	12		.24	.32	0.71	.40	.29	0.11	0.12	0.17	0.37	0.46	0.98	1.01	52.7	.13
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	95	100	12		.18	.15	0.77	.20	.15	0.04	0.04	0.09	0.17	0.28	0.51	0.59	153.1	.27
Newfoundland																				
CANSAP																				
Goose	91	100	77	91	11		.34	.29	0.68	.36	.27	0.11	0.12	0.13	0.31	0.40	0.96	1.05	115.5	.39
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	103	100	12		.62	.36	1.02	.55	.46	0.07	0.08	0.15	0.33	0.95	1.31	1.34	157.3	.98
Shelburne	100	100	91	100	12		1.47	.92	1.01	1.36	1.08	0.20	0.22	0.32	1.39	2.13	3.30	3.66	152.7	2.25
Truro	100	100	80	100	12		.81	.55	0.99	.81	.63	0.14	0.14	0.17	0.75	1.38	1.83	1.95	130.7	1.06
APN																				
Kejimkujik	100	95	99	89	121		.50	.35	1.16	.72	1.23	0.02	0.08	0.14	0.32	0.84	1.68	10.07	162.2	.81
Ontario																				
CANSAP																				
Atikokan	100	100	91	100	12		.17	.19	0.92	.34	.56	0.05	0.06	0.11	0.18	0.29	1.57	2.09	58.9	.10
Dorset	100	100	76	100	12		.12	.09	0.87	.12	.07	0.01	0.02	0.06	0.11	0.18	0.24	0.25	93.5	.11
ELA	100	100	87	100	12		.09	.14	0.99	.23	.27	0.04	0.04	0.07	0.09	0.29	0.82	0.88	68.3	.06
Harrow	93	100	81	93	12		.12	.12	1.24	.24	.32	0.01	0.02	0.06	0.10	0.30	0.92	0.97	105.9	.13

Sodium

State / Network / Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NA Dep g/m2
Kingston	100	100	77	100	12		.20	.19	0.80	.29	.41	0.08	0.08	0.12	0.15	0.26	1.22	1.56	98.3	.19
Mount Forest	92	100	79	92	11		.24	.12	1.41	.28	.36	0.02	0.02	0.04	0.09	0.57	0.98	1.00	88.4	.21
Peterborough	100	100	86	100	12		.11	.10	1.02	.16	.17	0.03	0.03	0.03	0.07	0.25	0.53	0.59	87.5	.10
Simcoe	100	100	84	100	12		.24	.20	0.99	.31	.33	0.03	0.05	0.10	0.22	0.41	1.03	1.24	88.7	.21
APIOS-D																				
Balsam Lake	100	84	95	92	87	11	.07	.05	1.27	.11	.14	0.01	0.01	0.02	0.06	0.12	0.26	0.74	73.6	.05
Charleston Lake	93	85	92	75	102	5	.10	.07	1.29	.14	.16	0.01	0.01	0.02	0.07	0.20	0.38	0.64	99.8	.10
Dorset	100	97	89	92	115	9	.06	.04	1.14	.08	.18	0.01	0.01	0.02	0.03	0.09	0.15	1.65	92.8	.05
Graham Lake	100	88	87	88	98	1	.10	.08	1.07	.14	.18	0.01	0.02	0.05	0.08	0.15	0.37	0.89	103.0	.10
Longwoods	100	97	91	93	97	1	.10	.10	1.07	.17	.25	0.01	0.02	0.05	0.09	0.20	0.42	2.10	89.7	.09
Melborne	100	89	91	88	79		.11	.11	0.89	.16	.14	0.01	0.03	0.06	0.12	0.24	0.34	0.79	80.5	.09
Nithgrove	93	93	85	84	97		.07	.06	0.93	.10	.15	0.01	0.02	0.03	0.06	0.11	0.21	1.17	88.1	.06
North Easthope	98	87	98	75	99	1	.08	.07	1.06	.13	.17	0.01	0.02	0.03	0.07	0.14	0.28	0.97	90.1	.07
Railton	100	90	92	89	80	2	.11	.11	1.08	.18	.19	0.01	0.03	0.05	0.12	0.25	0.45	0.89	100.9	.11
Raven Lake	91	89	100	81	84		.11	.10	0.99	.17	.24	0.01	0.03	0.06	0.10	0.19	0.41	1.80	78.9	.08
Wellesly	93	93	94	81	84	2	.05	.05	1.18	.10	.13	0.01	0.01	0.02	0.05	0.12	0.31	0.63	84.5	.04
Whitman Creek	99	82	92	89	84		.09	.07	1.02	.12	.14	0.01	0.02	0.03	0.08	0.15	0.25	0.82	103.6	.10
AFH																				
Chalk River	100	89	94	85	83		.21	.23	0.81	.32	.28	0.03	0.08	0.13	0.23	0.42	0.60	1.42	90.8	.19
ELA	100	94	99	89	65		.16	.14	1.09	.28	.47	0.01	0.04	0.06	0.13	0.28	0.54	3.09	58.4	.09
Long Point	100	95	94	95	69	1	.20	.14	1.27	.32	.56	0.01	0.03	0.06	0.13	0.33	0.69	3.61	84.1	.16
APIOS-C																				
Bear Island	100	93	78	84	10		.05	.04	1.06	.06	.06	0.01	0.01	0.02	0.03	0.10	0.19	0.19	79.5	.04
Campbellford	100	91	79	92	11		.09	.08	0.76	.10	.06	0.02	0.02	0.04	0.11	0.16	0.17	0.17	83.7	.08
Colchester	100	85	82	83	10		.09	.09	0.94	.14	.16	0.02	0.02	0.05	0.09	0.15	0.54	0.58	88.5	.08
Dorion	100	100	88	100	12		.05	.04	0.54	.05	.02	0.02	0.02	0.02	0.05	0.06	0.09	0.09	64.2	.03
Port Stanley	100	82	80	84	10		.06	.05	1.09	.09	.09	0.01	0.01	0.02	0.08	0.11	0.29	0.31	78.9	.05
Ramsey	100	98	86	92	11		.04	.04	0.50	.05	.02	0.02	0.02	0.03	0.05	0.05	0.09	0.09	75.2	.03
Quebec																				
CANSAP																				
Maniwaki	100	100	81	100	12		.19	.17	0.95	.25	.26	0.04	0.04	0.07	0.21	0.27	0.84	0.97	88.8	.17
Sept Isles	91	100	83	91	11		.66	.60	0.53	.68	.38	0.22	0.26	0.43	0.62	0.81	1.49	1.61	120.1	.79
AFH																				
Montmorency	100	95	94	81	115	14	.10	.10	1.01	.17	.20	0.01	0.02	0.05	0.13	0.20	0.41	1.18	130.2	.13

1981 Annual Summary

Magnesium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	10%	25%	50%	75%	90%	Max	Total Precip cm	MG Dep g/m2
Arizona																				
NADP																				
Organ Pipe Mon.	94	100	97	87	16		.12	.11	1.02	.16	.14	0.01	0.02	0.07	0.13	0.20	0.46	0.53	18.4	.02
Arkansas																				
NADP																				
Fayetteville	98	95	99	85	40		.04	.04	1.13	.07	.10	0.00	0.01	0.02	0.04	0.06	0.19	0.40	106.6	.04
California																				
NADP																				
Bishop	92	79	103	75	12		.10	.14	1.79	.46	.63	0.01	0.01	0.05	0.08	0.95	1.66	1.77	11.2	.01
Hopland (Ukiah)	98	88	97	88	26		.05	.05	1.05	.09	.12	0.01	0.01	0.02	0.05	0.14	0.22	0.57	106.0	.06
Colorado																				
NADP																				
Alamosa	90	99	93	79	31		.08	.11	1.04	.19	.26	0.03	0.03	0.04	0.09	0.23	0.52	1.21	22.6	.02
Pawnee	90	94	94	77	31		.08	.10	1.29	.23	.32	0.01	0.02	0.03	0.10	0.29	0.67	1.36	33.7	.03
Rocky Mt. Nat Park	96	81	91	77	36		.08	.08	1.06	.14	.17	0.01	0.02	0.04	0.07	0.16	0.37	0.86	33.4	.03
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	98	59	1	.08	.07	0.93	.10	.09	0.01	0.02	0.04	0.07	0.13	0.22	0.41	89.1	.08
Florida																				
NADP																				
Bradford Forest	96	84	91	83	27		.08	.10	1.13	.29	.83	0.03	0.03	0.05	0.08	0.12	0.64	4.36	89.6	.07
Georgia																				
NADP																				
Georgia Station	96	94	101	81	33		.05	.06	0.99	.10	.12	0.01	0.02	0.03	0.06	0.11	0.32	0.45	96.8	.05
Illinois																				
NADP																				
Argonne	96	94	98	81	41		.07	.09	0.87	.14	.16	0.02	0.03	0.05	0.09	0.14	0.44	0.70	92.9	.06
Bondville	98	98	97	85	42		.04	.05	0.93	.09	.11	0.01	0.02	0.03	0.05	0.09	0.25	0.46	100.3	.04
Dixon Springs	100	86	93	81	38		.04	.05	0.90	.07	.07	0.01	0.01	0.02	0.04	0.09	0.19	0.27	113.0	.04
MAP3s/PCN																				
Illinois	99	77	103	88	50	8	.03	.02	1.10	.05	.08	0.01	0.01	0.01	0.02	0.04	0.12	0.51	92.9	.03
Indiana																				
UAPSP																				
Fort Wayne	100	98	94	93	85	21	.07	.04	1.48	.12	.24	0.00	0.01	0.01	0.05	0.14	0.24	1.80	99.5	.07
Rockport	100	99	101	99	88	27	.02	.02	1.20	.03	.04	0.00	0.01	0.01	0.02	0.04	0.08	0.20	93.9	.02
Maine																				
NADP																				
Bridgton	100	94	99	88	44		.06	.05	1.02	.08	.10	0.01	0.01	0.02	0.04	0.09	0.19	0.49	108.1	.06
Caribou	96	75	94	76	38		.04	.05	1.14	.10	.21	0.00	0.01	0.03	0.04	0.09	0.20	1.30	118.5	.05
Greenville Station	97	78	92	90	46		.04	.05	0.76	.06	.06	0.01	0.01	0.03	0.05	0.07	0.13	0.32	113.2	.05
Massachusetts																				
UAPSP																				
Turners Falls	100	100	98	99	100	39	.03	.02	1.16	.04	.06	0.00	0.00	0.01	0.02	0.04	0.08	0.44	101.8	.03
Michigan																				
NADP																				
Kellogg	98	97	94	77	38		.07	.08	0.95	.12	.14	0.00	0.03	0.04	0.07	0.13	0.45	0.53	83.9	.06
Minnesota																				
NADP																				
Lamberton	94	98	83	85	35		.13	.14	0.90	.20	.21	0.03	0.04	0.07	0.11	0.28	0.40	1.03	53.5	.07
Marcell	100	97	90	85	41		.06	.08	0.93	.14	.28	0.02	0.03	0.04	0.06	0.11	0.41	1.72	77.7	.05

Magnesium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration												Total Precip cm	MG Dep g/m2
							Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max		
Mississippi																				
NADP																				
Meridian	100	91	88	77	36		.05	.06	1.01	.10	.10	0.01	0.02	0.03	0.05	0.15	0.27	0.34	106.2	.05
Nebraska																				
NADP																				
Mead	92	93	96	79	34		.06	.09	1.16	.19	.30	0.01	0.02	0.04	0.08	0.19	0.55	1.63	71.3	.04
New Hampshire																				
NADP																				
Hubbard Brook	98	100	96	96	50		.04	.04	1.03	.09	.15	0.01	0.02	0.02	0.04	0.08	0.18	0.73	151.5	.07
New York																				
NADP																				
Aurora	98	83	90	81	41		.05	.06	0.95	.12	.26	0.01	0.02	0.04	0.05	0.08	0.19	1.61	94.9	.05
Chautauqua	98	99	94	96	47		.06	.06	1.13	.13	.30	0.00	0.02	0.03	0.05	0.10	0.32	1.90	102.8	.07
Knobit	100	84	99	91	47		.07	.07	1.10	.13	.20	0.01	0.02	0.03	0.06	0.09	0.34	1.01	96.3	.07
Stilwell Lake	98	92	86	90	44		.09	.08	0.96	.13	.16	0.02	0.02	0.04	0.06	0.16	0.34	0.75	117.6	.11
MAP3s/PCN																				
Brookhaven	100	99	100	97	70	2	.07	.07	0.93	.10	.10	0.01	0.03	0.04	0.07	0.13	0.24	0.53	97.4	.07
Ithaca	100	97	95	98	71	15	.02	.02	0.94	.03	.03	0.01	0.01	0.01	0.02	0.04	0.06	0.17	122.2	.02
Whiteface	100	98	112	95	85	36	.02	.01	0.97	.02	.03	0.01	0.01	0.01	0.01	0.02	0.05	0.24	109.1	.02
North Carolina																				
NADP																				
Clinton Station	100	99	94	87	44		.05	.09	1.27	.21	.35	0.01	0.02	0.04	0.07	0.24	0.63	1.64	113.0	.05
Coweeta	98	88	94	88	43		.03	.06	1.39	.21	.50	0.00	0.01	0.02	0.04	0.08	0.66	2.78	132.9	.05
Finley (A)	100	91	95	77	34		.05	.06	0.97	.11	.13	0.01	0.02	0.03	0.05	0.13	0.34	0.56	76.5	.04
Lewiston	100	99	105	87	43		.05	.08	1.22	.19	.37	0.01	0.02	0.03	0.06	0.21	0.33	1.81	79.5	.04
Piedmont Station	100	99	98	81	40		.05	.07	0.95	.10	.11	0.01	0.02	0.03	0.06	0.12	0.35	0.46	99.3	.05
R Triangle Inst	98	95	97	87	42		.07	.09	1.23	.19	.27	0.01	0.02	0.03	0.08	0.24	0.51	1.25	90.7	.06
R Triangle Park	94	100	87	90	46		.05	.07	1.20	.17	.32	0.01	0.02	0.03	0.06	0.16	0.39	1.81	97.5	.04
UAPSP																				
Raleigh	100	99	92	95	59	28	.02	.01	1.08	.03	.04	0.00	0.01	0.01	0.01	0.03	0.07	0.23	81.3	.01
Ohio																				
NADP																				
Caldwell	100	100	101	96	47		.06	.07	0.97	.12	.14	0.01	0.02	0.04	0.06	0.14	0.29	0.79	90.6	.05
Delaware	98	100	111	90	42		.05	.07	0.95	.11	.13	0.01	0.02	0.03	0.06	0.13	0.32	0.52	78.8	.04
Wooster	94	94	99	87	42		.06	.08	1.11	.15	.24	0.01	0.02	0.05	0.07	0.15	0.36	1.26	79.7	.05
MAP3s/PCN																				
Oxford	100	98	103	95	69	14	.03	.02	1.07	.04	.06	0.01	0.01	0.01	0.03	0.05	0.09	0.44	76.0	.02
UAPSP																				
Zanesville	100	99	87	98	100	22	.03	.03	1.20	.04	.05	0.00	0.01	0.01	0.03	0.06	0.12	0.21	118.5	.03
Oregon																				
NADP																				
Alsea	100	86	100	83	37		.11	.12	1.13	.27	.54	0.01	0.04	0.06	0.10	0.21	0.79	2.60	179.8	.20
H.J. Andrews	100	99	97	90	38		.03	.03	1.15	.12	.43	0.00	0.01	0.02	0.03	0.05	0.12	2.61	245.1	.08
Schmidt Farm	95	94	98	88	37		.07	.06	1.04	.11	.13	0.01	0.02	0.03	0.07	0.11	0.36	0.53	86.7	.06
Pennsylvania																				
NADP																				
Leading Ridge	98	97	89	88	44		.06	.07	0.87	.10	.10	0.01	0.03	0.03	0.07	0.12	0.19	0.53	96.3	.05
MAP3s/PCN																				
Penn State	100	99	109	96	72	7	.04	.04	1.10	.07	.07	0.01	0.01	0.02	0.04	0.09	0.16	0.32	93.3	.03

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Min	10%	25%	50%	75%	90%	Max	Total Precip cm	MG Dep g/m2
Tennessee																				
NADP																				
Elkmont	98	86	101	76	38		.04	.03	1.00	.06	.07	0.00	0.01	0.02	0.04	0.06	0.13	0.42	142.2	.05
Walker Branch	98	93	103	85	44		.05	.06	1.06	.15	.43	0.01	0.02	0.03	0.06	0.10	0.19	2.81	95.3	.05
MAP3s/PCN																				
Oak Ridge	99	98	109	98	63	7	.02	.02	0.81	.03	.04	0.01	0.01	0.02	0.02	0.04	0.05	0.29	95.1	.02
Texas																				
NADP																				
K-Bar	98	100	99	82	28		.04	.06	1.29	.14	.27	0.00	0.02	0.03	0.06	0.11	0.30	1.33	42.5	.02
Victoria	100	94	99	78	32		.07	.10	1.24	.23	.42	0.01	0.02	0.05	0.07	0.23	0.63	1.72	113.6	.08
Virginia																				
MAP3s/PCN																				
Virginia	100	95	100	96	47	13	.03	.02	1.05	.03	.05	0.01	0.01	0.01	0.02	0.04	0.06	0.27	90.8	.03
Washington																				
NADP																				
Olympic Nat. Park	98	82	91	85	41		.09	.06	0.98	.10	.14	0.00	0.02	0.03	0.07	0.12	0.19	0.90	366.4	.32
West Virginia																				
NADP																				
Parsons	100	100	94	98	50		.05	.05	0.99	.09	.13	0.01	0.01	0.02	0.05	0.08	0.18	0.82	129.4	.06
Alberta																				
CANSAP																				
Edson	100	100	80	100	12		.13	.17	0.49	.19	.10	0.09	0.10	0.11	0.14	0.27	0.37	0.39	42.8	.06
Lethbridge	91	100	75	91	11		.42	.64	1.02	.94	.74	0.13	0.14	0.23	0.91	1.35	2.29	2.38	39.1	.16
British Columbia																				
CANSAP																				
Port Hardy	92	100	84	92	11		.19	.13	0.73	.16	.11	0.04	0.05	0.07	0.17	0.20	0.38	0.40	188.2	.35
Revelstoke	92	100	82	92	11		.04	.03	0.86	.05	.05	0.01	0.01	0.01	0.03	0.05	0.17	0.19	87.1	.03
Terrace	100	100	92	100	12	5	.01	.01	0.79	.02	.01	0.01	0.01	0.01	0.01	0.03	0.04	0.04	110.6	.01
Manitoba																				
CANSAP																				
Bissett	92	100	86	92	11		.06	.07	0.68	.08	.06	0.02	0.02	0.04	0.06	0.11	0.19	0.20	48.4	.03
The Pas	100	100	78	100	12		.25	.30	0.68	.38	.35	0.12	0.13	0.18	0.28	0.44	1.17	1.43	52.7	.13
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	95	100	12		.04	.03	0.81	.04	.03	0.01	0.01	0.01	0.03	0.08	0.09	0.09	153.1	.06
Newfoundland																				
CANSAP																				
Goose	91	100	77	91	11	2	.02	.01	0.57	.02	.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	115.5	.02
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	103	100	12	1	.07	.05	1.03	.07	.05	0.01	0.01	0.03	0.05	0.11	0.15	0.15	157.3	.12
Shelburne	100	100	91	100	12		.17	.11	0.91	.16	.12	0.03	0.03	0.04	0.16	0.24	0.38	0.43	152.7	.26
Truro	100	100	80	100	12		.09	.06	0.98	.09	.06	0.01	0.01	0.03	0.08	0.13	0.18	0.19	130.7	.12
APN																				
Kejimkujik	100	95	99	89	122	9	.06	.05	1.13	.09	.14	0.01	0.01	0.02	0.04	0.11	0.19	1.11	162.2	.09
Ontario																				
CANSAP																				
Atikokan	100	100	91	100	12		.07	.07	0.55	.08	.04	0.02	0.03	0.04	0.07	0.10	0.15	0.15	58.9	.04
Dorset	100	100	76	100	12		.06	.05	0.56	.06	.03	0.02	0.02	0.03	0.05	0.09	0.11	0.11	93.5	.05
ELA	100	100	87	100	12		.03	.04	0.90	.06	.06	0.01	0.01	0.02	0.03	0.08	0.19	0.19	68.3	.02
Harrow	93	100	81	93	12		.23	.29	0.92	.43	.43	0.09	0.09	0.11	0.32	0.46	1.30	1.31	105.9	.25

Magnesium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	10%	25%	50%	75%	90%	Max	Total Precip cm	MG Dep g/m2
Kingston	100	100	77	100	12		.08	.09	0.62	.10	.08	0.04	0.04	0.05	0.07	0.13	0.27	0.28	98.3	.08
Mount Forest	92	100	79	92	11		.25	.19	1.18	.32	.34	0.02	0.03	0.08	0.17	0.38	0.98	0.98	88.4	.22
Peterborough	100	100	86	100	12		.05	.05	0.73	.07	.06	0.02	0.02	0.03	0.05	0.09	0.18	0.19	87.5	.05
Simcoe	100	100	84	100	12		.08	.08	0.68	.11	.10	0.05	0.05	0.05	0.06	0.13	0.32	0.34	88.7	.08
APIOS-D																				
Balsam Lake	100	88	92	92	85	17	.04	.02	1.47	.06	.08	0.01	0.01	0.01	0.02	0.09	0.17	0.43	73.6	.03
Charleston Lake	93	91	93	76	104	19	.03	.03	1.43	.07	.13	0.01	0.01	0.01	0.03	0.07	0.20	1.07	99.8	.03
Dorset	100	94	90	90	109	24	.03	.02	1.28	.04	.06	0.01	0.01	0.01	0.02	0.04	0.11	0.36	92.8	.03
Graham Lake	100	76	87	84	84	9	.06	.04	1.43	.09	.18	0.01	0.01	0.01	0.04	0.10	0.21	1.42	103.0	.06
Longwoods	100	88	91	90	86	4	.06	.06	1.09	.10	.10	0.01	0.02	0.03	0.06	0.13	0.21	0.56	89.7	.06
Melborne	100	94	91	90	86	8	.05	.04	1.30	.08	.11	0.01	0.01	0.02	0.04	0.10	0.24	0.57	80.5	.04
Nithgrove	93	90	85	83	92	8	.04	.03	1.20	.06	.08	0.01	0.01	0.01	0.02	0.08	0.15	0.58	88.1	.03
Railton	100	88	92	90	81	8	.04	.03	1.32	.07	.09	0.01	0.01	0.02	0.04	0.10	0.19	0.65	100.9	.04
Raven Lake	91	92	100	81	85	11	.04	.03	1.35	.06	.08	0.01	0.01	0.01	0.03	0.09	0.15	0.53	78.9	.03
Wellesly	93	89	94	78	74	3	.05	.05	1.20	.08	.09	0.01	0.01	0.02	0.04	0.13	0.23	0.37	84.5	.05
Whitman Creek	99	81	96	88	82	9	.05	.03	1.37	.07	.11	0.01	0.01	0.01	0.03	0.08	0.20	0.70	103.6	.05
APN																				
Chalk River	100	89	94	85	83	4	.04	.05	0.91	.07	.06	0.01	0.01	0.02	0.05	0.08	0.16	0.28	90.8	.04
ELA	100	94	100	89	65	5	.04	.04	1.12	.09	.16	0.01	0.01	0.02	0.03	0.07	0.20	1.07	58.4	.02
Long Point	100	95	94	95	70	2	.10	.09	1.09	.16	.25	0.01	0.02	0.05	0.08	0.16	0.36	1.70	84.1	.08
APIOS-C																				
Bear Island	100	83	76	84	10	1	.05	.03	1.14	.04	.03	0.01	0.01	0.01	0.04	0.08	0.09	0.09	79.5	.04
Campbellford	100	91	79	92	11	1	.05	.03	1.32	.05	.05	0.01	0.01	0.02	0.05	0.11	0.13	0.14	83.7	.04
Dalhousie Mills	100	85	81	91	11		.04	.04	0.72	.05	.03	0.01	0.01	0.03	0.04	0.06	0.12	0.13	98.8	.04
Dorion	100	92	92	92	11		.03	.02	0.81	.03	.02	0.01	0.01	0.01	0.03	0.05	0.06	0.07	64.2	.02
Port Stanley	100	82	80	84	10		.09	.08	0.87	.12	.11	0.02	0.02	0.05	0.06	0.20	0.33	0.34	78.9	.07
Ramsey	100	88	87	84	10	1	.03	.02	1.11	.03	.03	0.01	0.01	0.01	0.03	0.04	0.08	0.08	75.2	.03
Quebec																				
CANSAP																				
Maniwaki	100	100	81	100	12		.04	.04	0.75	.05	.04	0.01	0.01	0.02	0.03	0.07	0.12	0.13	88.8	.04
Sept Isles	91	100	83	91	11		.07	.06	0.55	.07	.04	0.03	0.03	0.04	0.06	0.08	0.17	0.18	120.1	.08
APN																				
Montmorency	100	95	94	82	116	46	.01	.02	0.96	.02	.03	0.01	0.01	0.01	0.01	0.03	0.05	0.18	130.2	.02

Potassium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration: Wtd Mean mg/l	Concentration: Geometric Mean mg/l	Concentration: Geometric SD	Concentration: Arithmetic Mean mg/l	Concentration: Arithmetic SD mg/l	Percentiles mg/l: Min	Percentiles mg/l: 10%	Percentiles mg/l: 25%	Percentiles mg/l: 50%	Percentiles mg/l: 75%	Percentiles mg/l: 90%	Percentiles mg/l: Max	Total Precip cm	K Dep g/m2
Arizona																				
NADP																				
Organ Pipe Mon.	94	100	97	87	16		.05	.05	1.27	.11	.15	0.01	0.01	0.03	0.05	0.08	0.45	0.50	18.4	.01
Arkansas																				
NADP																				
Fayetteville	98	95	99	85	40	1	.05	.03	1.13	.05	.08	0.00	0.01	0.01	0.03	0.05	0.11	0.40	106.6	.06
California																				
NADP																				
Bishop	92	79	103	75	12	1	.03	.05	1.66	.12	.14	0.00	0.00	0.01	0.07	0.21	0.41	0.46	11.2	.00
Hopland (Ukiah)	98	88	97	88	26		.02	.02	1.10	.05	.12	0.00	0.01	0.01	0.02	0.04	0.06	0.65	106.0	.03
Colorado																				
NADP																				
Alamosa	90	99	93	79	31		.05	.06	0.95	.10	.13	0.01	0.02	0.03	0.06	0.11	0.27	0.66	22.6	.01
Pawnee	90	94	94	77	31		.05	.06	1.21	.11	.12	0.01	0.01	0.03	0.07	0.17	0.35	0.46	33.7	.02
Rocky Mt. Nat Park	96	81	91	77	36	1	.05	.03	1.27	.06	.08	0.00	0.01	0.01	0.03	0.09	0.16	0.39	33.4	.02
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	98	59	9	.08	.06	1.11	.13	.24	0.02	0.02	0.04	0.07	0.14	0.29	1.68	89.1	.07
Florida																				
NADP																				
Bradford Forest	96	84	91	83	27		.04	.05	0.90	.10	.25	0.01	0.02	0.03	0.04	0.06	0.14	1.35	89.6	.04
Georgia																				
NADP																				
Georgia Station	96	94	101	81	33		.09	.04	1.23	.10	.29	0.00	0.01	0.02	0.03	0.09	0.13	1.68	96.8	.09
Illinois																				
NADP																				
Argonne	96	94	98	81	41	1	.03	.03	0.88	.04	.03	0.00	0.01	0.02	0.03	0.05	0.08	0.17	92.9	.02
Bondville	98	98	97	85	42		.04	.03	0.93	.05	.05	0.01	0.01	0.02	0.03	0.05	0.14	0.26	100.3	.04
Dixon Springs	100	86	93	81	38		.03	.03	0.82	.04	.03	0.00	0.01	0.01	0.03	0.06	0.08	0.13	113.0	.03
Maine																				
NADP																				
Bridgton	100	94	99	88	44	1	.02	.02	1.05	.03	.03	0.00	0.00	0.01	0.02	0.04	0.08	0.14	108.1	.03
Caribou	96	75	94	76	38	1	.02	.02	1.15	.04	.05	0.00	0.00	0.01	0.02	0.04	0.08	0.24	118.5	.03
Greenville Station	97	78	92	90	46		.03	.03	0.92	.04	.05	0.00	0.01	0.01	0.03	0.06	0.09	0.27	113.2	.03
Michigan																				
NADP																				
Kellogg	98	97	94	77	38	1	.03	.03	0.85	.04	.03	0.00	0.01	0.02	0.03	0.04	0.08	0.16	83.9	.02
Minnesota																				
NADP																				
Lamberton	94	98	83	85	35		.07	.08	1.03	.13	.17	0.01	0.02	0.03	0.08	0.17	0.37	0.86	53.5	.04
Marcell	100	97	90	85	41		.03	.04	0.78	.06	.06	0.01	0.02	0.02	0.03	0.06	0.15	0.26	77.7	.03
Mississippi																				
NADP																				
Meridian	100	91	88	77	36		.05	.05	1.14	.09	.12	0.00	0.01	0.02	0.04	0.11	0.21	0.67	106.2	.06
Nebraska																				
NADP																				
Mead	92	93	96	79	34		.07	.10	0.92	.17	.26	0.02	0.03	0.05	0.10	0.18	0.34	1.49	71.3	.05
New Hampshire																				
NADP																				
Hubbard Brook	98	100	96	96	50	2	.02	.01	0.96	.03	.09	0.00	0.00	0.01	0.02	0.02	0.04	0.68	151.5	.02

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	K Dep g/m2
New York																				
NADP																				
Aurora	98	83	90	81	41	1	.02	.02	0.92	.03	.03	0.00	0.01	0.01	0.02	0.03	0.07	0.15	94.9	.02
Chautauqua	98	99	94	96	47		.03	.03	0.97	.05	.08	0.00	0.01	0.02	0.03	0.05	0.09	0.55	102.8	.03
Knobit	100	84	99	91	47		.03	.03	0.66	.04	.03	0.01	0.01	0.02	0.03	0.04	0.08	0.16	96.3	.03
Stilwell Lake	98	92	86	90	44	1	.03	.02	0.96	.03	.03	0.00	0.01	0.01	0.02	0.04	0.06	0.18	117.6	.03
MAP3s/PCN																				
Brookhaven	100	99	100	97	70	20	.05	.05	1.17	.10	.17	0.02	0.02	0.03	0.06	0.12	0.20	1.25	97.4	.05
Ithaca	100	97	95	98	71	43	.02	.02	0.91	.03	.03	0.02	0.02	0.02	0.02	0.04	0.08	0.21	122.2	.03
Whiteface	100	97	112	95	83	60	.03	.01	0.87	.02	.04	0.02	0.02	0.02	0.02	0.03	0.07	0.26	109.1	.03
North Carolina																				
NADP																				
Clinton Station	100	99	94	87	44	1	.03	.04	1.21	.08	.11	0.00	0.01	0.02	0.03	0.10	0.24	0.49	113.0	.03
Coweeta	98	88	94	88	43	1	.02	.03	1.09	.05	.08	0.00	0.01	0.01	0.02	0.04	0.13	0.39	132.9	.03
Finley (A)	100	91	95	77	34		.02	.03	1.00	.05	.06	0.00	0.01	0.01	0.02	0.06	0.11	0.28	76.5	.02
Lewiston	100	99	105	87	43		.03	.04	0.96	.06	.07	0.01	0.01	0.02	0.04	0.07	0.14	0.41	79.5	.02
Piedmont Station	100	99	98	81	40		.05	.04	0.95	.07	.09	0.01	0.01	0.02	0.04	0.07	0.18	0.54	99.3	.05
R Triangle Inst	98	95	97	87	42		.12	.04	1.39	.19	.75	0.00	0.01	0.01	0.04	0.11	0.20	4.88	90.7	.11
R Triangle Park	94	100	87	90	46	2	.02	.02	1.19	.04	.05	0.00	0.01	0.01	0.02	0.06	0.10	0.21	97.5	.02
Ohio																				
NADP																				
Caldwell	100	100	101	96	47	1	.03	.03	0.95	.04	.03	0.00	0.01	0.02	0.04	0.05	0.08	0.19	90.6	.03
Delaware	98	100	111	90	42	3	.02	.02	1.08	.04	.03	0.00	0.01	0.01	0.03	0.04	0.09	0.14	78.8	.02
Wooster	94	94	99	87	42	2	.02	.03	1.15	.05	.06	0.00	0.01	0.02	0.03	0.05	0.15	0.26	79.7	.02
MAP3s/PCN																				
Oxford	100	93	102	94	66	25	.06	.03	1.19	.07	.11	0.02	0.02	0.02	0.04	0.09	0.17	0.70	76.0	.04
Oregon																				
NADP																				
Alsea	100	86	100	83	37		.05	.06	1.09	.12	.20	0.01	0.02	0.03	0.05	0.09	0.36	1.12	179.8	.09
H.J. Andrews	100	99	97	90	38	3	.01	.01	1.05	.02	.04	0.00	0.00	0.01	0.01	0.02	0.03	0.25	245.1	.03
Schmidt Farm	95	94	98	88	37		.04	.03	0.97	.06	.09	0.00	0.01	0.02	0.03	0.06	0.11	0.49	86.7	.03
Pennsylvania																				
NADP																				
Leading Ridge	98	97	89	88	44	1	.04	.04	0.99	.07	.13	0.00	0.02	0.02	0.04	0.06	0.13	0.89	96.3	.04
MAP3s/PCN																				
Penn State	100	99	109	96	73	20	.11	.07	1.43	.18	.32	0.02	0.02	0.03	0.10	0.19	0.37	1.88	93.3	.10
Tennessee																				
NADP																				
Elkmont	98	86	101	76	38	1	.02	.02	0.94	.03	.04	0.00	0.01	0.02	0.02	0.03	0.05	0.24	142.2	.03
Walker Branch	98	93	103	85	44	2	.03	.02	1.02	.03	.03	0.00	0.01	0.02	0.03	0.04	0.07	0.15	95.3	.02
MAP3s/PCN																				
Oak Ridge	99	98	109	98	63	26	.04	.03	0.98	.04	.05	0.02	0.02	0.02	0.03	0.06	0.10	0.34	95.1	.04
Texas																				
NADP																				
K-Bar	98	100	99	82	28		.02	.03	1.00	.05	.06	0.00	0.01	0.02	0.03	0.05	0.11	0.28	42.5	.01
Victoria	100	94	99	78	32	1	.03	.04	1.37	.10	.15	0.00	0.01	0.02	0.04	0.10	0.40	0.57	113.6	.04
Virginia																				
MAP3s/PCN																				
Virginia	100	95	100	96	48	23	.05	.03	1.36	.08	.12	0.02	0.02	0.02	0.04	0.11	0.21	0.70	90.8	.04
Washington																				
NADP																				
Olympic Nat. Park	98	82	91	85	41		.03	.03	0.79	.03	.03	0.00	0.01	0.02	0.03	0.04	0.08	0.14	366.4	.12

Potassium

State / Network / Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Min	10%	25%	50%	75%	90%	Max	Total Precip cm	K Dep g/m2
West Virginia																				
NADP																				
Parsons	100	100	94	98	50	1	.04	.04	0.93	.06	.06	0.00	0.02	0.03	0.04	0.07	0.13	0.27	129.4	.05
Alberta																				
CANSAP																				
Edson	100	100	80	100	12		.08	.09	0.83	.12	.08	0.01	0.02	0.06	0.09	0.18	0.25	0.26	42.8	.03
Lethbridge	91	100	75	91	11		.14	.18	0.90	.26	.25	0.05	0.06	0.07	0.20	0.37	0.80	0.87	39.1	.05
British Columbia																				
CANSAP																				
Port Hardy	92	100	84	92	11	1	.08	.05	1.07	.07	.07	0.01	0.01	0.03	0.05	0.11	0.23	0.25	188.2	.15
Revelstoke	92	100	82	92	11		.11	.12	0.55	.13	.07	0.04	0.05	0.08	0.10	0.20	0.26	0.27	87.1	.10
Terrace	100	100	92	100	12	1	.03	.03	1.03	.05	.07	0.01	0.01	0.01	0.02	0.05	0.20	0.25	110.6	.03
Manitoba																				
CANSAP																				
Bissett	92	100	86	92	11	4	.03	.02	1.18	.04	.04	0.01	0.01	0.01	0.02	0.07	0.13	0.14	48.4	.01
The Pas	100	100	78	100	12		.12	.13	0.71	.16	.12	0.04	0.05	0.06	0.13	0.23	0.39	0.43	52.7	.06
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	95	100	12	1	.04	.03	0.90	.04	.06	0.01	0.01	0.01	0.03	0.04	0.16	0.21	153.1	.06
Newfoundland																				
CANSAP																				
Goose	91	100	77	91	11		.19	.11	1.07	.21	.31	0.03	0.03	0.05	0.09	0.14	0.93	1.02	115.5	.21
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	103	100	12	2	.04	.03	0.87	.04	.03	0.01	0.01	0.02	0.04	0.05	0.09	0.10	157.3	.07
Shelburne	100	100	91	100	12		.09	.08	0.63	.09	.06	0.03	0.03	0.05	0.08	0.13	0.21	0.22	152.7	.14
Truro	100	100	80	100	12	1	.06	.04	1.04	.06	.07	0.01	0.01	0.02	0.04	0.09	0.20	0.22	130.7	.08
APN																				
Kejimkujik	100	95	99	89	121	19	.04	.04	0.97	.07	.09	0.01	0.02	0.02	0.04	0.08	0.14	0.84	162.2	.07
Ontario																				
CANSAP																				
Atikokan	100	100	91	100	12		.09	.10	0.62	.12	.10	0.05	0.06	0.06	0.07	0.14	0.35	0.39	58.9	.05
Dorset	100	100	76	100	12		.05	.05	0.54	.06	.03	0.02	0.02	0.03	0.06	0.07	0.10	0.10	93.5	.05
ELA	100	100	87	100	12		.06	.09	0.78	.11	.09	0.03	0.03	0.04	0.09	0.15	0.30	0.33	68.3	.04
Harrow	93	100	81	93	12	1	.03	.03	0.95	.05	.04	0.01	0.01	0.01	0.03	0.06	0.13	0.14	105.9	.03
Kingston	100	100	77	100	12		.06	.06	0.71	.07	.04	0.01	0.02	0.03	0.07	0.10	0.14	0.15	98.3	.06
Mount Forest	92	100	79	92	11		.05	.05	0.37	.05	.02	0.02	0.02	0.04	0.04	0.06	0.07	0.07	88.4	.04
Peterborough	100	100	86	100	12		.06	.05	0.93	.08	.12	0.01	0.02	0.03	0.04	0.07	0.35	0.43	87.5	.06
Simcoe	100	100	84	100	12	2	.11	.06	1.37	.12	.17	0.01	0.01	0.03	0.07	0.12	0.48	0.48	88.7	.10
APIOS-D																				
Balsam Lake	100	88	92	92	87	17	.04	.02	1.04	.05	.09	0.01	0.01	0.01	0.02	0.04	0.08	0.70	73.6	.03
Charleston Lake	93	93	93	77	109	17	.03	.02	0.97	.04	.05	0.01	0.01	0.01	0.02	0.04	0.10	0.38	99.8	.03
Dorset	100	93	89	90	110	25	.03	.02	1.00	.04	.06	0.01	0.01	0.01	0.02	0.04	0.08	0.59	92.8	.03
Graham Lake	100	90	86	88	100	8	.05	.04	1.04	.07	.11	0.01	0.01	0.02	0.04	0.07	0.15	0.80	103.0	.05
Longwoods	100	96	91	93	97	3	.05	.05	0.94	.09	.14	0.01	0.02	0.03	0.04	0.10	0.17	1.06	89.7	.04
Melborne	100	92	91	90	86	4	.06	.05	1.02	.08	.11	0.01	0.01	0.02	0.04	0.09	0.20	0.92	80.5	.05
Nithgrove	93	85	85	82	88	4	.04	.05	0.83	.07	.06	0.01	0.02	0.03	0.05	0.09	0.13	0.32	88.1	.04
Railton	100	94	92	92	88	4	.04	.04	0.86	.06	.05	0.01	0.01	0.02	0.04	0.08	0.12	0.24	100.9	.04
Raven Lake	91	91	100	82	88	9	.03	.03	0.93	.05	.05	0.01	0.01	0.01	0.03	0.05	0.12	0.27	78.9	.02
Wellesly	93	92	94	80	83	9	.02	.03	0.87	.04	.04	0.01	0.01	0.01	0.02	0.04	0.08	0.24	84.5	.02
Whitman Creek	99	81	94	91	91	6	.04	.04	1.05	.07	.10	0.01	0.01	0.02	0.04	0.07	0.13	0.56	103.6	.04

Potassium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Concentration Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	K Dep g/m2
APN																				
Chalk River	100	89	94	85	83		.13	.12	0.86	.18	.18	0.02	0.04	0.07	0.13	0.23	0.34	1.42	90.8	.12
ELA	100	94	99	89	65	1	.06	.07	0.96	.11	.14	0.01	0.02	0.03	0.05	0.13	0.29	0.76	58.4	.03
Long Point	100	95	94	95	69	3	.07	.06	0.98	.09	.14	0.01	0.02	0.03	0.06	0.10	0.16	0.80	84.1	.06
APIOS-C																				
Bear Island	100	81	76	76	9		.06	.05	0.94	.07	.07	0.01	0.01	0.03	0.05	0.10	0.23	0.23	79.5	.05
Campbellford	100	84	80	84	10		.06	.04	0.75	.05	.03	0.01	0.01	0.02	0.04	0.08	0.10	0.10	83.7	.05
Colchester	100	83	80	83	10		.07	.06	0.84	.08	.04	0.01	0.01	0.04	0.08	0.12	0.13	0.13	88.5	.06
Dorion	100	100	88	100	12		.04	.02	0.96	.03	.05	0.01	0.01	0.01	0.02	0.05	0.15	0.19	64.2	.02
Port Stanley	100	82	80	84	10		.04	.04	0.77	.05	.04	0.01	0.01	0.03	0.04	0.08	0.13	0.13	78.9	.04
Ramsey	100	91	89	84	10		.05	.04	0.52	.05	.03	0.02	0.02	0.03	0.04	0.06	0.10	0.10	75.2	.04
Quebec																				
CANSAP																				
Maniwaki	100	100	81	100	12		.07	.06	0.64	.07	.05	0.02	0.02	0.04	0.05	0.12	0.17	0.18	88.8	.07
Sept Isles	91	100	83	91	11		.20	.11	0.96	.19	.28	0.04	0.04	0.05	0.10	0.17	0.86	1.00	120.1	.24
APN																				
Montmorency	100	95	94	81	115	65	.02	.02	0.81	.03	.09	0.01	0.01	0.02	0.02	0.02	0.06	0.89	130.2	.02

1982 ANNUAL STATISTICAL SUMMARIES FOR pH, SPECIFIC CONDUCTANCE, HYDROGEN ION, MAJOR ION SPECIES, BY INDIVIDUAL MONITORING SITE

pH

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Wtd. Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	10%	25%	50%	75%	90%	Max	Total Precip cm
Alabama																		
UAPSP																		
Selma	100	100	93	99	154	4.6	4.5	0.08	4.5	0.3	3.40	4.06	4.27	4.50	4.71	4.92	5.70	235.8
Selma-2	100	100	93	99	101	4.5	4.5	0.08	4.5	0.4	3.39	4.07	4.29	4.47	4.68	4.97	5.82	141.6
Arizona																		
NADP																		
Oliver Knoll	100	79	93	83	28	4.7	5.0	0.13	5.1	0.7	4.09	4.27	4.54	4.93	5.59	5.82	7.29	35.5
Organ Pipe Mon.	98	75	100	79	21	5.3	5.7	0.11	5.8	0.6	4.47	4.79	5.51	5.79	6.06	6.76	7.02	26.6
Arkansas																		
NADP																		
Fayetteville	100	98	95	84	37	5.0	5.1	0.10	5.1	0.5	4.44	4.52	4.81	5.05	5.39	5.57	7.58	142.3
California																		
NADP																		
Davis	100	96	99	87	19	5.5	5.7	0.07	5.7	0.4	4.62	5.06	5.57	5.74	5.93	6.20	6.39	83.0
Hopland (Ukiah)	100	98	98	89	27	5.4	5.5	0.07	5.5	0.4	4.67	5.10	5.35	5.45	5.78	6.07	6.59	118.3
Sequoia Nat. Park	100	86	92	83	30	5.3	5.3	0.09	5.4	0.5	4.19	4.91	5.11	5.32	5.62	5.95	6.54	203.1
Tanbark Flat	97	81	94	86	29	4.8	4.9	0.18	4.9	0.9	3.19	3.64	4.29	5.05	5.47	6.12	6.35	95.6
Colorado																		
NADP																		
Manitou	100	83	89	81	33	4.9	5.3	0.12	5.3	0.7	4.41	4.63	4.81	5.07	5.61	6.55	7.00	45.6
Mesa Verde	100	92	92	83	36	4.7	5.1	0.15	5.1	0.8	4.02	4.25	4.61	4.92	5.66	6.46	7.38	64.9
Pawnee	100	98	97	83	31	5.3	5.6	0.10	5.7	0.6	4.79	4.84	5.30	5.59	6.02	6.62	6.82	41.4
Rocky Mt. Nat Park	100	94	95	79	40	5.0	5.1	0.11	5.2	0.6	4.16	4.54	4.73	5.08	5.45	6.19	6.59	36.8
Sand Spring	100	97	89	94	44	5.0	5.4	0.11	5.4	0.6	4.19	4.66	5.02	5.30	5.74	6.40	6.83	37.2
Delaware																		
MAP3s/PCN																		
Lewes	100	99	98	96	61	4.5	4.4	0.10	4.5	0.4	3.53	3.94	4.16	4.41	4.68	5.13	5.65	98.0
Florida																		
NADP																		
Bradford Forest	100	95	86	89	41	4.7	4.9	0.09	4.9	0.4	3.78	4.45	4.59	4.86	5.14	5.34	6.13	150.4
Everglades Nat. Pa	98	76	99	79	40	5.0	5.1	0.11	5.1	0.6	4.05	4.24	4.81	5.12	5.60	5.95	6.32	161.4
Georgia																		
NADP																		
Georgia Station	100	99	98	91	44	4.6	4.7	0.11	4.7	0.5	3.61	4.14	4.35	4.68	4.94	5.29	6.42	137.4
UAPSP																		
Uvalda	100	100	96	99	78	4.7	4.6	0.09	4.7	0.4	3.92	4.18	4.39	4.63	4.91	5.12	6.20	107.5
Hawaii																		
NADP																		
Mauna Loa	100	97	95	92	36	5.3	5.4	0.06	5.5	0.3	4.68	5.10	5.29	5.43	5.59	5.88	6.71	117.6
Illinois																		
NADP																		
Argonne	98	77	95	75	37	4.3	4.5	0.10	4.5	0.5	3.78	4.08	4.18	4.36	4.57	5.20	5.91	106.8
Bondville	100	95	96	83	42	4.3	4.4	0.07	4.4	0.3	3.83	3.99	4.11	4.41	4.55	4.84	5.32	88.8
Dixon Springs	100	100	90	92	46	4.5	4.6	0.12	4.6	0.6	3.96	4.04	4.19	4.51	4.79	5.48	6.83	152.7
NIARC	100	99	94	81	41	4.6	4.9	0.15	4.9	0.8	4.13	4.25	4.41	4.59	5.29	6.19	7.29	95.4
Salem	98	100	102	90	44	4.4	4.4	0.09	4.4	0.4	3.73	4.07	4.16	4.38	4.55	4.86	6.50	107.4
Southern Ill U	100	100	99	92	46	4.5	4.4	0.07	4.4	0.3	3.91	4.00	4.22	4.45	4.58	4.87	5.52	130.2
MAP3s/PCN																		
Illinois	100	98	99	94	77	4.3	4.4	0.11	4.4	0.5	3.73	3.88	4.04	4.31	4.50	4.84	6.42	90.5

pH

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Wtd. Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	10%	25%	50%	75%	90%	Max	Total Precip cm
Indiana																		
NADP																		
Indiana Dunes	98	100	83	87	44	4.4	4.5	0.11	4.5	0.6	3.93	4.12	4.24	4.43	4.64	4.95	7.21	108.6
UAPSP																		
Roanoke	100	98	94	98	98	4.3	4.4	0.11	4.4	0.5	3.61	3.90	4.15	4.32	4.54	4.87	6.21	108.7
Rockport	100	95	94	99	107	4.3	4.3	0.09	4.3	0.4	3.56	3.84	4.10	4.27	4.49	4.75	6.10	115.2
Kansas																		
UAPSP																		
Lancaster	100	99	90	97	95	4.7	4.9	0.11	5.0	0.6	4.04	4.31	4.55	4.83	5.20	5.65	7.06	114.5
Kentucky																		
UAPSP																		
Morehead	100	100	98	99	128	4.2	4.1	0.09	4.2	0.4	3.41	3.64	3.90	4.16	4.39	4.67	5.14	124.0
Maine																		
NADP																		
Caribou	100	92	90	87	43	4.7	4.8	0.10	4.8	0.5	4.11	4.28	4.46	4.77	5.09	5.46	6.14	94.6
Greenville Station	100	91	86	92	48	4.5	4.7	0.10	4.7	0.5	4.00	4.08	4.31	4.53	4.98	5.26	6.19	85.6
UAPSP																		
Winterport	100	96	98	97	101	4.4	4.4	0.09	4.4	0.4	3.62	3.92	4.08	4.34	4.68	4.94	5.24	81.8
Massachusetts																		
NADP																		
East	91	93	91	84	40	4.3	4.3	0.09	4.3	0.4	3.69	3.87	3.99	4.26	4.59	4.89	5.31	96.1
UAPSP																		
Turners Falls	100	100	92	99	83	4.2	4.2	0.09	4.2	0.4	3.46	3.78	3.87	4.19	4.51	4.72	5.36	101.8
Michigan																		
NADP																		
Kellogg	98	82	92	75	37	4.3	4.5	0.08	4.5	0.4	3.83	4.10	4.25	4.35	4.59	5.01	5.77	85.2
UAPSP																		
Gaylord	100	97	92	98	108	4.4	4.5	0.09	4.5	0.4	3.59	4.00	4.31	4.50	4.80	5.11	5.58	68.6
Minnesota																		
NADP																		
Fernberg	100	88	90	83	43	5.0	5.1	0.09	5.1	0.5	4.16	4.48	4.92	5.09	5.54	5.74	6.20	79.0
Lamberton	100	94	91	82	34	5.5	5.8	0.10	5.9	0.6	4.92	5.15	5.42	5.78	6.26	6.74	7.21	77.4
Marcell	100	97	93	88	47	5.0	5.2	0.10	5.2	0.5	4.16	4.57	4.86	5.16	5.57	6.02	6.49	81.7
Mississippi																		
NADP																		
Meridian	100	86	86	75	38	4.7	4.7	0.08	4.7	0.4	3.98	4.21	4.43	4.70	4.95	5.22	5.44	165.1
UAPSP																		
Clinton	100	100	100	100	110	4.6	4.5	0.09	4.6	0.4	3.32	4.08	4.29	4.51	4.82	5.07	5.39	158.9
Missouri																		
NADP																		
Ashland	100	99	97	90	43	4.6	4.8	0.10	4.8	0.5	3.89	4.22	4.46	4.75	4.99	5.50	6.21	125.2
University Forest	100	90	95	81	43	4.5	4.6	0.10	4.6	0.5	3.83	4.13	4.34	4.55	4.78	5.11	6.64	135.8
Montana																		
NADP																		
Glacier Nat Park	100	89	86	91	48	5.2	5.4	0.08	5.4	0.5	4.92	4.94	5.08	5.32	5.75	6.06	7.21	91.9
Nebraska																		
NADP																		
Mead	100	94	100	81	34	5.2	5.5	0.11	5.5	0.6	4.21	4.78	5.00	5.52	5.94	6.38	6.93	95.6
New Hampshire																		
NADP																		
Hubbard Brook	100	90	91	83	42	4.3	4.4	0.10	4.4	0.5	3.59	3.97	4.15	4.34	4.61	4.90	6.27	101.6

pH

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Wtd. Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	10%	25%	50%	75%	90%	Max	Total Precip cm
New York																		
NADP																		
Aurora	100	98	88	92	46	4.2	4.3	0.11	4.3	0.5	3.52	3.86	4.07	4.24	4.49	4.71	6.49	74.4
Chautauqua	100	98	88	89	46	4.2	4.3	0.08	4.3	0.4	3.80	3.92	4.06	4.22	4.42	4.57	6.31	95.6
Jasper	96	75	97	75	36	4.3	4.3	0.07	4.3	0.3	3.75	3.91	4.07	4.28	4.64	4.76	4.95	75.9
Knobit	98	93	100	88	44	4.4	4.4	0.09	4.5	0.4	3.65	3.97	4.11	4.49	4.76	4.94	5.50	78.1
Stilwell Lake	100	93	94	89	46	4.3	4.3	0.09	4.3	0.4	3.63	3.87	4.03	4.29	4.53	4.76	5.86	115.7
MAP3s/PCN																		
Brookhaven	100	100	99	98	62	4.4	4.3	0.10	4.3	0.4	3.59	3.77	3.97	4.39	4.66	4.89	5.57	107.4
Ithaca	100	97	96	99	79	4.2	4.1	0.08	4.1	0.3	3.32	3.73	3.96	4.13	4.33	4.49	4.86	93.4
Whiteface	99	98	115	95	88	4.4	4.4	0.08	4.4	0.4	3.74	3.97	4.09	4.35	4.57	4.85	5.63	82.2
North Carolina																		
NADP																		
Coweeta	100	86	97	87	46	4.7	4.6	0.06	4.6	0.3	4.24	4.28	4.45	4.60	4.86	5.09	5.22	182.5
Finley (A)	100	78	94	77	39	4.5	4.6	0.09	4.6	0.4	3.80	4.08	4.40	4.56	4.81	5.11	5.86	117.7
Lewiston	100	100	103	94	45	4.5	4.6	0.07	4.6	0.3	3.96	4.11	4.31	4.60	4.78	4.99	5.61	[illegible]
Piedmont Station	100	99	96	89	46	4.4	4.5	0.11	4.5	0.5	3.80	4.00	4.11	4.38	4.66	5.31	6.11	[illegible]
R Triangle Inst	100	94	101	83	40	4.4	4.7	0.13	4.7	0.7	3.85	4.19	4.32	4.45	4.70	6.17	6.71	139.4
R Triangle Park	100	100	90	92	42	4.4	4.4	0.06	4.5	0.3	3.80	4.14	4.32	4.44	4.59	4.82	5.01	149.7
UAPSP																		
Raleigh	100	97	94	93	88	4.4	4.4	0.10	4.4	0.4	3.46	3.88	4.15	4.38	4.61	4.99	6.19	114.7
North Dakota																		
NADP																		
Teddy Roosevelt NP	100	83	88	76	36	5.2	5.4	0.10	5.4	0.5	4.63	4.68	4.95	5.30	5.88	6.24	6.36	54.2
Ohio																		
NADP																		
Caldwell	100	90	99	91	43	4.2	4.2	0.06	4.2	0.3	3.73	3.85	4.02	4.18	4.31	4.45	5.02	96.2
Delaware	100	98	102	92	47	4.3	4.3	0.11	4.4	0.5	3.53	3.89	4.16	4.34	4.46	4.84	6.80	81.5
Wooster	100	88	98	83	43	4.2	4.3	0.06	4.3	0.3	3.73	3.97	4.09	4.29	4.47	4.54	5.30	87.7
MAP3s/PCN																		
Oxford	100	98	109	95	72	4.3	4.2	0.07	4.2	0.3	3.51	3.84	4.04	4.25	4.44	4.52	5.22	99.0
UAPSP																		
Zanesville	100	100	99	100	100	4.2	4.2	0.08	4.2	0.3	3.24	3.82	3.95	4.16	4.36	4.59	5.13	90.0
Pennsylvania																		
NADP																		
Leading Ridge	100	100	90	98	50	4.2	4.2	0.07	4.2	0.3	3.75	3.83	4.04	4.18	4.37	4.61	5.13	104.1
MAP3s/PCN																		
Penn State	99	98	116	95	79	4.2	4.1	0.08	4.2	0.4	3.61	3.80	3.94	4.08	4.30	4.51	6.03	85.1
UAPSP																		
Scranton	100	97	96	96	103	4.2	4.2	0.09	4.2	0.4	3.62	3.71	3.92	4.16	4.42	4.63	6.02	75.1
South Dakota																		
UAPSP																		
Brookings	100	91	105	98	57	5.2	5.4	0.08	5.4	0.5	4.38	4.75	5.12	5.46	5.73	5.94	6.51	61.9
Brookings-2	100	90	102	98	53	5.3	5.5	0.09	5.5	0.5	4.40	4.80	5.20	5.60	5.83	6.15	6.67	61.2
Tennessee																		
NADP																		
Elkmont	98	82	101	81	43	4.7	4.7	0.08	4.7	0.4	3.89	4.23	4.35	4.69	5.01	5.23	5.47	153.5
Walker Branch	100	94	96	92	48	4.3	4.4	0.08	4.4	0.4	3.73	4.03	4.21	4.35	4.52	4.83	6.06	145.3
MAP3s/PCN																		
Oak Ridge	100	100	100	99	62	4.3	4.3	0.06	4.3	0.3	3.73	3.99	4.08	4.31	4.48	4.63	5.01	148.1
UAPSP																		
Alamo	100	99	87	100	49	4.5	4.6	0.12	4.6	0.7	3.89	4.02	4.21	4.48	4.81	5.04	7.60	120.7

pH

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Wtd. Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	10%	25%	50%	75%	90%	Max	Total Precip cm
Texas																		
NADP																		
Forest Seed Ctr	100	82	97	79	36	4.8	5.0	0.12	5.0	0.7	4.10	4.41	4.65	4.84	5.18	6.18	7.18	127.4
K-Bar	98	85	91	79	23	5.6	5.9	0.08	5.9	0.5	5.26	5.28	5.42	5.91	6.22	6.55	7.09	37.5
Victoria	100	99	100	85	33	5.0	5.0	0.11	5.0	0.5	4.12	4.28	4.78	4.93	5.37	5.87	6.17	84.0
UAPSP																		
Marshall	100	86	101	98	76	4.5	4.5	0.09	4.5	0.4	3.60	4.06	4.22	4.56	4.74	4.99	6.41	103.0
Vermont																		
NADP																		
Bennington	100	81	98	83	43	4.4	4.5	0.09	4.5	0.4	3.85	3.99	4.22	4.41	4.75	5.01	5.61	87.0
UAPSP																		
Underhill Center	100	99	93	95	200	4.3	4.3	0.09	4.3	0.4	3.49	3.84	3.99	4.30	4.57	4.88	5.46	159.7
Virginia																		
MAP3s/PCN																		
Virginia	98	97	100	96	51	4.2	4.2	0.08	4.2	0.3	3.50	3.74	4.06	4.21	4.44	4.61	4.89	89.7
Washington																		
NADP																		
Olympic Nat. Park	100	81	98	89	45	5.4	5.5	0.05	5.5	0.3	4.83	5.22	5.35	5.49	5.73	5.87	6.47	366.5
West Virginia																		
NADP																		
Parsons	100	100	92	96	50	4.3	4.4	0.09	4.4	0.4	3.86	4.01	4.19	4.31	4.52	4.85	5.90	151.6
Wisconsin																		
NADP																		
Trout Lake	100	76	92	76	40	4.7	5.0	0.11	5.0	0.6	4.07	4.37	4.59	4.91	5.35	5.80	6.82	104.3
Wyoming																		
NADP																		
Newcastle	100	95	89	87	42	5.1	5.5	0.09	5.5	0.5	4.79	4.92	5.07	5.47	5.96	6.22	6.97	46.6
British Columbia																		
CANSAP																		
Kelowna	100	100	81	100	12	4.9	4.9	0.07	4.9	0.3	4.30	4.33	4.70	5.10	5.17	5.20	5.20	50.3
Port Hardy	100	100	80	100	12	5.0	4.9	0.06	4.9	0.3	4.30	4.39	4.72	5.05	5.17	5.20	5.20	174.9
Revelstoke	100	100	88	100	12	5.1	5.1	0.06	5.1	0.3	4.70	4.70	5.00	5.10	5.28	5.74	5.80	112.9
Manitoba																		
CANSAP																		
Bissett	100	100	82	100	12	4.9	5.2	0.09	5.2	0.5	4.30	4.42	5.03	5.20	5.40	6.03	6.30	59.2
Dauphin	92	100	92	92	11	5.7	6.1	0.14	6.2	0.8	4.70	4.82	5.40	6.20	6.90	7.34	7.40	50.7
New Brunswick																		
CANSAP																		
Acadia Fes	100	100	90	100	12	4.5	4.5	0.06	4.5	0.3	4.20	4.20	4.30	4.40	4.67	4.94	5.00	126.6
Charlo	92	100	75	92	11	4.6	4.8	0.14	4.9	0.7	4.00	4.04	4.40	4.70	5.50	6.06	6.10	89.0
Nova Scotia																		
CANSAP																		
Kejimkujik	100	100	97	100	12	4.5	4.5	0.05	4.5	0.2	4.10	4.16	4.40	4.50	4.67	4.94	5.00	127.8
Shelburne	100	100	87	100	12	4.4	4.4	0.04	4.4	0.2	4.10	4.13	4.30	4.40	4.57	4.70	4.70	129.4
Truro	99	88	82	91	11	4.4	4.4	0.06	4.4	0.2	4.00	4.02	4.10	4.50	4.60	4.68	4.70	101.8
APN																		
Kejimkujik	100	99	103	94	139	4.6	4.6	0.13	4.6	0.6	3.40	4.00	4.30	4.60	5.00	5.40	7.30	126.2
Ontario																		
CANSAP																		
Atikokan	100	100	80	100	12	4.8	4.8	0.09	4.9	0.5	4.40	4.40	4.50	4.80	5.07	5.75	5.90	82.2
Dorset	100	100	89	100	12	4.1	4.1	0.05	4.1	0.2	3.70	3.76	4.00	4.10	4.30	4.30	4.30	113.6
Kingston	100	100	81	100	12	4.0	4.1	0.14	4.2	0.7	3.70	3.70	3.80	4.00	4.17	5.69	6.20	101.6

pH

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Wtd. Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	Percentiles 10%	Percentiles 25%	Percentiles 50%	Percentiles 75%	Percentiles 90%	Percentiles Max	Total Precip cm
Peterborough	100	100	84	100	12	4.2	4.4	0.14	4.4	0.7	3.90	3.90	4.05	4.25	4.40	6.05	6.50	88.8
Pickle Lake	99	100	79	99	12	4.7	4.8	0.08	4.8	0.4	4.20	4.26	4.60	4.70	5.00	5.51	5.60	72.8
Simcoe	96	100	79	96	12	4.0	4.1	0.07	4.1	0.3	3.70	3.73	3.90	4.00	4.17	4.61	4.70	100.9
APIOS-D																		
Dorset	100	78	91	79	116	4.2	4.3	0.09	4.3	0.4	3.35	3.79	4.10	4.28	4.60	4.88	5.37	113.0
Forbes Twsp.	100	78	98	84	75	4.7	4.9	0.12	4.9	0.6	3.58	4.33	4.57	4.88	5.21	5.73	6.23	81.7
Melborne	100	76	97	92	68	4.1	4.2	0.11	4.2	0.5	3.28	3.66	3.93	4.15	4.43	4.64	6.74	89.3
APN																		
Chalk River	100	95	96	96	113	4.2	4.4	0.11	4.4	0.5	3.60	3.80	4.10	4.30	4.60	4.96	7.40	82.6
ELA	100	98	91	94	91	4.8	5.0	0.12	5.1	0.6	3.90	4.30	4.60	5.10	5.50	6.00	6.50	69.0
Long Point	100	97	83	98	66	4.1	4.3	0.16	4.3	0.8	3.20	3.60	3.88	4.10	4.40	5.69	7.40	83.0
APIOS-C																		
Alvinston	100	93	79	85	11	4.3	4.5	0.15	4.5	0.7	3.90	3.93	4.08	4.30	4.58	6.09	6.20	84.9
Bear Island	100	96	120	92	12	4.2	4.2	0.07	4.2	0.3	3.81	3.86	4.07	4.22	4.29	4.81	4.87	64.9
Dorset	100	100	87	100	13	4.2	4.2	0.04	4.2	0.1	3.93	3.96	4.07	4.23	4.31	4.40	4.45	103.2
McKellar	100	98	76	92	12	4.1	4.2	0.06	4.2	0.2	3.77	3.81	4.03	4.14	4.44	4.54	4.57	93.4
Ramsey	100	100	103	100	13	4.3	4.3	0.06	4.3	0.2	3.81	3.95	4.22	4.31	4.41	4.76	4.93	68.6
Wilberforce	100	80	78	76	10	4.1	4.2	0.04	4.2	0.2	3.93	3.93	4.07	4.18	4.28	4.43	4.44	111.0
Quebec																		
APN																		
Montmorency	100	96	89	86	149	4.4	4.6	0.13	4.6	0.6	3.50	4.00	4.20	4.50	4.90	5.40	8.00	123.6
Saskatchewan																		
CANSAP																		
Cree Lake	100	100	77	100	12	5.0	5.5	0.10	5.5	0.5	4.50	4.62	5.13	5.65	5.97	6.24	6.30	53.3

1982 Annual Summary

Specific Conductance

Units: umho/cm

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	10%	25%	50%	75%	90%	Max	Total Precip cm
Alabama																	
UAPSP																	
Selma	100	100	93	99	154	18.0	0.73	23.8	22.9	2.9	7.3	10.5	18.3	29.0	48.5	199.0	235.8
Selma-2	100	100	93	99	101	18.6	0.73	24.7	25.9	3.1	8.0	11.8	19.3	27.5	43.4	199.0	141.6
Arizona																	
NADP																	
Oliver Knoll	100	79	93	83	28	17.9	0.67	22.4	15.8	6.4	7.3	10.6	16.9	29.6	44.4	68.8	35.5
Organ Pipe Mon.	98	75	100	79	21	14.4	0.81	19.6	16.3	4.6	4.7	7.5	13.8	27.8	51.8	56.5	26.6
Arkansas																	
NADP																	
Fayetteville	100	98	95	84	37	12.9	0.56	15.8	16.3	5.0	6.3	8.9	12.9	17.5	23.9	106.6	142.3
California																	
NADP																	
Davis	100	96	99	87	19	7.9	0.51	9.0	5.2	3.5	4.2	5.1	7.4	12.7	17.1	22.9	83.0
Hopland (Ukiah)	100	98	98	89	27	7.6	0.45	8.4	3.9	3.4	3.9	5.0	7.9	10.5	13.8	19.8	118.3
Sequoia Nat. Park	100	86	92	83	30	7.0	0.87	10.5	10.9	2.2	2.4	3.6	5.9	16.7	28.8	48.7	203.1
Tanbark Flat	97	81	94	86	29	25.1	1.27	61.3	99.7	3.7	5.2	10.4	17.6	45.1	271.0	402.5	95.6
Colorado																	
NADP																	
Manitou	100	83	89	81	33	11.8	0.59	14.0	8.9	3.9	5.8	7.3	12.3	18.2	26.7	44.6	45.6
Mesa Verde	100	92	92	83	36	14.8	0.79	20.3	18.2	3.4	5.7	8.0	14.8	25.1	49.5	73.7	64.9
Pawnee	100	98	97	83	31	11.1	0.55	12.9	7.6	3.1	5.6	7.5	11.7	16.0	24.9	39.2	41.4
Rocky Mt. Nat Park	100	94	95	79	40	10.6	0.57	12.6	9.2	3.7	4.8	7.4	9.9	16.6	20.4	56.4	36.8
Sand Spring	100	97	89	94	44	10.8	0.73	15.3	18.7	3.2	5.1	6.8	9.7	16.8	29.8	112.3	37.2
Delaware																	
MAP3s/PCN																	
Lewes	100	99	98	95	60	25.0	0.73	31.8	23.9	3.0	9.7	17.3	25.0	40.0	62.4	140.0	98.0
Florida																	
NADP																	
Bradford Forest	100	95	86	89	41	14.9	0.66	19.3	20.0	5.5	6.6	9.7	15.0	20.8	34.7	123.9	150.4
Everglades Nat. Pa	98	76	99	79	40	16.9	0.63	21.1	17.6	6.4	8.6	10.6	14.7	22.8	47.6	93.1	161.4
Georgia																	
NADP																	
Georgia Station	100	99	98	91	44	16.6	0.72	22.0	21.6	4.8	6.4	10.2	14.8	28.3	44.2	135.4	137.4
UAPSP																	
Uvalda	100	100	96	99	78	14.6	0.69	18.3	12.7	3.2	5.7	9.1	14.1	24.1	35.6	60.1	107.5
Hawaii																	
NADP																	
Mauna Loa	100	97	95	92	36	4.0	0.59	4.8	3.4	1.6	2.0	2.3	3.7	5.7	10.1	15.8	117.6
Illinois																	
NADP																	
Argonne	98	77	95	75	37	30.7	0.43	33.7	16.3	14.9	16.0	24.0	30.7	39.7	58.1	97.2	106.8
Bondville	100	95	96	83	42	29.0	0.50	32.8	17.3	10.1	16.5	19.5	26.1	41.9	59.0	81.2	88.8
Dixon Springs	100	100	90	91	45	24.8	0.60	29.4	17.8	5.1	11.4	16.9	23.8	41.3	54.3	85.3	152.7
NIARC	100	99	94	81	41	24.7	0.49	27.7	14.9	6.8	14.4	19.6	24.1	33.2	46.8	90.3	95.4
Salem	98	100	102	90	44	26.6	0.55	30.6	17.3	7.4	11.1	18.9	25.1	43.3	48.6	106.6	107.4
Southern Ill U	100	100	99	92	46	25.2	0.60	29.8	17.3	6.7	12.4	16.8	24.5	45.7	55.9	71.9	130.2
MAP3s/PCN																	
Illinois	100	98	99	94	77	29.5	0.63	35.8	22.3	5.9	12.8	18.0	28.0	46.5	73.0	100.0	90.5

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Min	10%	25%	50%	75%	90%	Max	Total Precip cm
Indiana																	
NADP																	
Indiana Dunes	98	100	83	87	44	26.8	0.47	29.9	15.2	7.6	15.4	19.7	25.1	35.0	54.0	77.1	108.6
UAPSP																	
Roanoke	100	98	94	98	98	29.1	0.63	35.4	23.7	6.4	13.0	19.0	28.8	45.5	70.3	118.0	108.7
Rockport	100	95	94	99	107	28.6	0.68	35.9	26.6	4.1	13.2	17.9	28.5	41.2	70.8	158.0	115.2
Kansas																	
UAPSP																	
Lancaster	100	99	90	97	95	15.7	0.62	18.9	11.5	2.1	6.4	11.0	16.0	24.0	37.9	65.8	114.5
Kentucky																	
UAPSP																	
Morehead	100	100	98	99	128	34.3	0.77	45.5	36.9	3.6	13.4	21.1	32.5	56.9	99.2	175.0	124.0
Maine																	
NADP																	
Caribou	100	92	90	87	43	14.5	0.62	17.2	9.9	3.8	6.4	8.9	15.7	23.3	34.7	38.8	94.6
Greenville Station	100	91	86	92	48	16.1	0.73	20.4	13.7	3.3	5.7	9.3	17.4	29.1	41.1	61.5	85.6
UAPSP																	
Winterport	100	96	98	97	100	21.6	0.81	29.4	24.0	2.7	6.9	11.9	22.9	40.1	58.1	121.0	81.8
Massachusetts																	
NADP																	
East	91	93	91	84	40	31.4	0.74	40.5	32.6	6.3	11.1	19.3	33.0	54.2	65.9	193.2	96.1
UAPSP																	
Turners Falls	100	100	92	99	83	30.6	0.78	40.7	31.3	7.1	10.6	15.2	35.0	58.3	83.3	177.0	101.8
Michigan																	
NADP																	
Kellogg	98	82	92	75	37	27.7	0.41	30.0	12.8	9.8	15.3	21.9	27.3	36.2	44.0	78.2	85.2
UAPSP																	
Gaylord	100	97	92	98	108	16.8	0.82	23.4	22.6	1.9	6.3	11.0	17.2	26.7	45.7	132.0	68.6
Minnesota																	
NADP																	
Fernberg	100	88	90	83	43	11.2	0.65	14.2	11.8	4.2	6.0	6.7	9.9	13.4	34.4	53.4	79.0
Lamberton	100	94	91	82	34	13.0	0.69	18.3	27.1	3.6	6.6	8.0	12.1	19.0	28.0	165.2	77.4
Marcell	100	97	93	88	47	11.9	0.56	14.5	12.5	5.2	6.2	8.0	11.3	15.5	24.8	82.7	81.7
Mississippi																	
NADP																	
Meridian	100	86	86	75	38	17.1	0.60	20.4	12.7	5.7	7.2	11.1	15.4	26.8	42.2	57.0	165.1
UAPSP																	
Clinton	100	100	100	100	110	17.1	0.78	23.6	27.3	2.7	6.2	10.2	17.1	28.9	43.0	259.0	158.9
Missouri																	
NADP																	
Ashland	100	99	97	90	43	18.2	0.59	21.7	14.9	4.9	8.7	12.0	19.3	26.2	34.6	70.1	125.2
University Forest	100	90	95	81	43	23.8	0.69	30.7	25.8	6.0	11.4	14.8	22.1	39.2	82.5	116.2	135.8
Montana																	
NADP																	
Glacier Nat Park	100	89	86	91	48	6.5	0.45	7.2	3.0	2.4	3.2	4.9	7.2	8.8	10.7	15.6	91.9
New Hampshire																	
NADP																	
Hubbard Brook	100	90	91	83	42	24.7	0.65	30.5	23.4	5.5	10.7	14.5	27.1	36.8	53.8	143.7	101.6
New York																	
NADP																	
Aurora	100	98	88	92	46	36.9	0.61	44.5	30.8	9.3	16.4	23.6	37.5	51.7	90.4	171.2	74.4
Chautauqua	100	98	88	89	46	37.3	0.48	41.9	21.7	15.0	19.8	25.9	35.8	52.5	78.3	105.4	95.6

Units: umho/cm

Specific Conductance

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	Units: umho/cm												Total Precip cm
						Geometric		Arithmetic		Percentiles							
					N	Mean	SD	Mean	SD	Min	10%	25%	50%	75%	90%	Max	
Jasper	96	75	97	75	36	29.8	0.62	35.6	21.1	10.1	12.0	16.7	30.4	46.9	71.9	88.0	75.9
Knobit	98	93	100	88	44	23.9	0.81	34.8	39.6	7.9	8.0	12.3	21.3	45.4	62.3	211.6	78.1
Stilwell Lake	100	93	94	89	46	31.0	0.71	40.0	31.5	10.2	11.9	16.8	31.8	55.3	72.7	156.9	115.7
MAP3s/PCN																	
Brookhaven	100	100	99	98	62	26.3	0.92	37.0	29.3	1.7	9.4	14.0	24.5	53.3	88.0	120.0	107.4
Ithaca	100	99	97	99	78	32.4	0.70	41.1	31.2	5.8	14.0	21.0	31.0	51.0	88.4	170.0	93.4
Whiteface	99	97	115	93	83	21.0	0.74	27.0	20.1	2.9	7.9	14.0	23.0	37.0	49.6	115.0	82.2
North Carolina																	
NADP																	
Coweeta	100	86	97	87	46	15.3	0.61	17.8	8.7	2.9	5.8	10.4	18.1	24.5	30.9	34.1	182.5
Finley (A)	100	78	94	77	39	20.4	0.64	25.2	18.5	6.7	8.9	14.3	19.7	28.7	50.5	82.1	117.7
Lewiston	100	100	103	94	45	21.6	0.64	26.5	19.3	6.6	8.8	13.0	21.8	32.7	50.4	110.0	116.4
Piedmont Station	100	99	96	89	46	27.3	0.74	34.4	21.6	4.7	10.0	15.0	28.9	52.3	63.4	85.4	109.2
R Triangle Inst	100	94	101	83	40	21.7	0.54	24.9	14.1	7.1	9.3	15.3	21.9	31.7	46.6	78.3	139.4
R Triangle Park	100	100	90	92	42	21.5	0.51	24.6	14.2	8.0	10.8	15.3	21.3	30.6	45.3	75.0	149.7
UAPSP																	
Raleigh	100	97	94	93	88	22.5	0.75	30.2	28.4	4.9	8.5	13.4	21.0	33.4	66.1	200.0	114.7
North Dakota																	
NADP																	
Teddy Roosevelt NP	100	83	88	76	36	10.8	0.48	12.1	5.9	4.2	5.1	7.3	11.4	15.4	19.8	29.0	54.2
Ohio																	
NADP																	
Caldwell	100	90	99	91	43	39.7	0.47	44.1	20.0	13.2	20.4	26.2	41.0	56.8	76.2	87.2	96.2
Delaware	100	98	102	92	47	35.7	0.64	44.5	33.8	11.5	18.9	21.2	30.1	62.2	91.1	166.2	81.5
Wooster	100	88	98	83	43	35.4	0.55	41.1	23.3	9.2	19.3	23.9	32.6	54.8	81.8	100.5	87.7
MAP3s/PCN																	
Oxford	100	98	109	95	72	29.4	0.63	36.3	27.1	9.7	14.3	18.0	28.0	43.0	76.4	140.0	99.0
UAPSP																	
Zanesville	100	100	99	100	100	35.9	0.63	44.5	38.1	6.1	19.0	23.2	36.0	51.9	72.9	291.0	90.0
Pennsylvania																	
NADP																	
Leading Ridge	100	100	90	98	50	37.5	0.60	44.8	28.0	10.5	16.4	23.7	36.8	58.3	92.8	129.2	104.1
MAP3s/PCN																	
Penn State	99	98	116	95	79	38.3	0.62	45.9	27.9	7.1	17.0	22.0	43.0	60.0	82.0	140.0	85.1
UAPSP																	
Scranton	100	97	96	96	103	32.5	0.74	42.0	30.5	6.1	11.7	19.7	32.9	57.8	83.5	139.0	75.1
South Dakota																	
UAPSP																	
Brookings	100	91	105	98	57	10.4	0.64	12.6	7.8	2.5	4.4	6.7	10.8	17.4	26.1	35.8	61.9
Brookings-2	100	90	102	98	53	10.1	0.60	11.9	7.2	2.8	4.2	6.9	9.7	15.6	24.4	32.4	61.2
Tennessee																	
NADP																	
Elkmont	98	82	101	81	43	14.1	0.77	18.9	16.2	2.9	5.1	6.9	13.5	28.9	34.3	90.2	153.5
Walker Branch	100	94	96	92	48	25.5	0.55	29.9	21.3	6.4	13.1	19.3	26.0	35.3	47.3	148.5	145.3
MAP3s/PCN																	
.Oak Ridge	100	100	100	99	62	24.9	0.57	29.0	16.8	4.8	13.0	17.0	24.0	39.8	53.0	100.0	148.1
UAPSP																	
Alamo	100	99	87	100	49	20.3	0.80	27.4	23.8	3.5	6.6	15.0	21.0	32.5	52.9	125.0	120.7
Texas																	
NADP																	
Forest Seed Ctr	100	82	97	79	36	16.1	0.61	19.3	12.6	3.4	8.1	11.5	14.8	25.0	38.6	60.1	127.4
K-Bar	98	85	91	79	23	11.3	0.84	17.7	25.7	3.3	3.7	6.8	9.1	17.3	44.7	123.9	37.5
Victoria	100	99	100	85	33	21.8	0.85	31.9	32.7	5.2	8.9	11.2	17.9	39.2	87.0	153.0	84.0

1982 Annual Summary

Specific Conductance

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Min	10%	25%	50%	75%	90%	Max	Total Precip cm
					Units: umho/cm					Percentiles							
UAPSP																	
Marshall	100	86	101	98	76	20.0	0.71	26.0	22.4	3.9	8.6	13.1	19.7	32.0	43.9	139.0	103.0
Vermont																	
NADP																	
Bennington	100	81	98	83	43	22.8	0.70	28.3	17.7	4.8	7.6	12.9	27.1	43.4	52.9	74.9	87.0
UAPSP																	
Underhill Center	100	99	93	95	200	23.6	0.91	33.9	30.0	2.3	6.5	13.0	25.0	48.6	63.1	171.0	159.7
Virginia																	
MAP3S/PCN																	
Virginia	98	99	100	97	52	29.6	0.71	38.3	31.7	5.6	12.0	17.3	30.5	41.8	81.6	164.0	89.7
Washington																	
NADP																	
Olympic Nat. Park	100	81	98	89	45	7.1	0.78	9.5	7.6	2.1	2.4	3.4	7.6	13.6	20.6	36.9	366.5
West Virginia																	
NADP																	
Parsons	100	100	92	96	50	25.7	0.66	31.0	18.9	3.6	9.4	18.1	27.3	38.2	55.9	99.4	151.6
Wisconsin																	
NADP																	
Trout Lake	100	76	92	76	40	14.4	0.64	18.2	15.7	5.7	6.8	7.9	13 6	20.3	30.8	86.2	104.3
Wyoming																	
NADP																	
Newcastle	100	95	89	87	42	9.8	0.51	11.1	6.3	4.2	4.6	6.7	9.4	13.9	19.5	33.6	46.6
British Columbia																	
CANSAP																	
Kelowna	100	100	81	100	12	9.4	0.53	10.7	5.5	4.6	4.6	5.5	10.3	14.9	20.3	22.2	50.3
Port Hardy	100	100	80	100	12	14.8	0.58	17.1	9.5	6.3	6.8	8.5	17.0	21.6	33.6	33.8	174.9
Revelstoke	100	100	88	100	12	6.6	0.12	6.6	0.8	5.5	5.6	5.8	6.6	7.1	8.1	8.2	112.9
Manitoba																	
CANSAP																	
Bissett	100	100	82	100	12	9.2	0.33	9.6	3.1	4.8	5.5	7.4	9.6	11.2	15.0	15.1	59.2
Dauphin	92	100	92	92	11	27.1	1.06	46.5	53.6	7.6	8.1	10.4	23.7	83.1	156.8	165.0	50.7
New Brunswick																	
CANSAP																	
Acadia Fes	100	100	90	100	12	17.8	0.39	18.9	6.3	8.7	8.9	13.4	20.3	22.3	27.9	28.7	126.6
Charlo	92	100	75	92	11	20.5	0.51	23.0	11.7	8.2	8.7	15.2	22.0	28.0	46.1	48.1	89.0
Nova Scotia																	
CANSAP																	
Kejimkujik	100	100	97	100	12	19.0	0.38	20.2	6.8	9.6	10.3	13.3	21.5	26.7	28.0	28.2	127.8
Shelburne	100	100	87	100	12	26.4	0.23	27.0	5.7	18.0	18.1	21.2	28.9	32.1	33.5	33.6	129.4
Truro	99	88	82	91	11	24.8	0.41	26.8	10.9	14.1	14.4	17.1	25.8	34.5	45.1	45.4	101.8
APN																	
Kejimkujik	100	98	103	92	131	22.1	1.00	36.6	50.2	2.0	5.7	11.7	23.0	42.9	80.6	436.0	126.2
Ontario																	
CANSAP																	
Atikokan	100	100	80	100	12	14.2	0.38	15.2	6.1	8.3	8.8	10.4	11.9	20.6	25.9	26.7	82.2
Dorset	100	100	89	100	12	33.4	0.24	34.3	8.0	24.0	24.5	27.1	34.6	40.9	46.0	47.3	113.6
Kingston	100	100	81	100	12	52.9	0.28	55.0	17.1	35.4	37.1	41.9	52.7	59.8	88.6	89.0	101.6
Peterborough	100	100	84	100	12	33.1	0.37	35.3	13.6	18.6	20.3	24.9	31.5	49.4	58.5	59.6	88.8
Pickle Lake	99	100	79	99	12	12.0	0.39	12.8	4.5	6.7	6.7	7.9	12.4	17.6	18.7	18.7	72.8
Simcoe	96	100	79	96	12	50.5	0.34	53.1	17.2	25.2	28.7	39.1	50.5	71.4	77.5	77.7	100.9

Specific Conductance

Units: umho/cm

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Min	Percentiles 10%	25%	50%	75%	90%	Max	Total Precip cm
APIOS-D																	
Fernberg	100	85	78	92	62	8.9	0.57	10.5	7.1	1.8	4.6	6.0	9.2	12.4	20.1	44.1	79.4
Forbes Twsp.	100	92	94	84	74	10.0	0.67	12.3	8.0	1.8	3.9	6.1	10.0	16.1	24.0	40.0	81.7
Quetico Centre	100	86	98	91	70	9.2	0.63	11.3	8.7	2.0	3.8	6.3	9.9	12.9	19.7	56.0	73.4
Whitman Creek	100	85	81	91	63	27.8	0.82	36.3	23.8	2.6	7.8	18.2	28.0	53.0	68.8	109.0	58.5
APN																	
Chalk River	100	94	96	95	110	28.1	0.69	35.2	25.0	6.0	10.5	18.5	28.5	44.3	75.7	139.0	82.6
ELA	100	97	91	94	88	11.7	0.69	15.0	12.4	2.9	4.7	7.6	11.2	17.3	28.2	78.3	69.0
Long Point	100	96	84	97	62	54.6	0.54	63.3	37.2	19.5	27.6	37.2	55.3	82.7	101.0	228.0	83.0
APIOS-C																	
Alvinston	100	100	76	100	13	34.2	0.53	39.8	27.1	18.4	18.8	22.1	31.0	45.9	97.2	118.0	84.9
Coldwater	100	100	76	100	13	24.6	0.50	27.4	12.6	10.4	11.3	17.3	24.0	38.7	45.6	46.7	92.3
Dorset	100	100	87	100	13	29.3	0.36	31.1	10.8	16.4	17.2	21.0	29.7	40.5	48.1	51.5	103.2
McKellar	100	93	80	85	11	33.8	0.47	37.4	18.1	15.3	15.9	26.0	36.5	45.8	74.6	79.5	93.4
Nakina	100	88	81	78	10	9.8	0.42	10.7	4.7	5.9	5.9	6.8	9.3	13.7	19.0	19.2	63.5
Ramsey	100	93	107	93	12	21.6	0.60	25.0	14.7	4.8	8.1	18.0	23.3	27.2	56.0	66.5	68.6
Quebec																	
APN																	
Montmorency	100	94	91	83	139	16.5	0.88	26.1	49.8	2.4	5.4	9.5	17.4	31.3	48.3	565.0	123.6
Saskatchewan																	
CANSAP																	
Cree Lake	100	100	77	100	12	8.4	0.34	8.9	3.2	4.9	5.2	6.2	8.4	10.8	14.8	16.2	53.3

1982 Annual Summary

H+ (derived from pH)

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration: Wtd Mean mg/l	Concentration: Geometric Mean mg/l	Concentration: Geometric SD	Concentration: Arithmetic Mean mg/l	Concentration: Arithmetic SD mg/l	Percentiles mg/l: Min	Percentiles mg/l: 10%	Percentiles mg/l: 25%	Percentiles mg/l: 50%	Percentiles mg/l: 75%	Percentiles mg/l: 90%	Percentiles mg/l: Max	Total Precip cm	H+ Dep mg/m2
Alabama																				
UAPSP																				
Selma	100	100	93	99	154		.028	.032	0.79	.044	.046	.002	.012	.019	.032	.054	.088	.398	235.8	66.
Selma-2	100	100	93	99	101		.032	.032	0.88	.046	.054	.002	.011	.021	.034	.051	.085	.407	141.6	45.
Arizona																				
NADP																				
Oliver Knoll	100	79	93	83	28		.022	.009	1.62	.019	.020	.000	.002	.003	.012	.029	.053	.081	35.5	8.
Organ Pipe Mon.	98	75	100	79	21		.005	.002	1.41	.004	.008	.000	.000	.001	.002	.003	.016	.034	26.6	1.
Arkansas																				
NADP																				
Fayetteville	100	98	95	84	37		.011	.008	1.24	.012	.010	.000	.003	.004	.009	.016	.030	.036	142.3	16.
California																				
NADP																				
Davis	100	96	98	87	19		.003	.002	0.90	.003	.005	.000	.001	.001	.002	.003	.009	.024	83.0	3.
Hopland (Ukiah)	100	98	98	89	27		.004	.003	0.88	.004	.004	.000	.001	.002	.004	.004	.008	.021	118.3	5.
Sequoia Nat. Park	100	86	92	83	30		.005	.004	1.09	.008	.013	.000	.001	.002	.005	.008	.012	.065	203.1	11.
Tanbark Flat	97	81	94	86	29		.015	.012	1.96	.067	.150	.000	.001	.003	.009	.052	.229	.646	95.6	14.
Colorado																				
NADP																				
Manitou	100	83	89	81	33		.012	.005	1.56	.010	.010	.000	.000	.002	.009	.015	.024	.039	45.6	6.
Mesa Verde	100	92	92	83	36		.020	.007	1.84	.019	.024	.000	.000	.002	.012	.025	.057	.095	64.9	13.
Pawnee	100	98	97	83	31		.005	.002	1.33	.004	.005	.000	.000	.001	.003	.005	.014	.016	41.4	2.
Rocky Mt. Nat Park	100	94	95	79	40		.011	.007	1.30	.013	.013	.000	.001	.004	.008	.019	.029	.069	36.8	4.
Sand Spring	100	97	89	94	44		.009	.004	1.40	.008	.011	.000	.000	.002	.005	.010	.022	.065	37.2	3.
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	96	61		.035	.034	1.03	.053	.050	.002	.008	.021	.039	.068	.114	.295	98.0	34.
Florida																				
NADP																				
Bradford Forest	100	95	86	89	41		.021	.013	0.99	.022	.029	.001	.005	.007	.014	.026	.035	.166	150.4	31.
Everglades Nat. Pa	98	76	99	79	40		.011	.007	1.32	.016	.021	.000	.001	.003	.008	.016	.057	.089	161.4	17.
Georgia																				
NADP																				
Georgia Station	100	99	98	91	44		.026	.019	1.21	.033	.041	.000	.005	.012	.021	.045	.073	.245	137.4	36.
UAPSP																				
Uvalda	100	100	96	99	78		.022	.022	0.94	.031	.024	.001	.008	.012	.024	.041	.066	.120	107.5	24.
Hawaii																				
NADP																				
Mauna Loa	100	97	95	92	36		.005	.004	0.81	.005	.004	.000	.001	.003	.004	.005	.008	.021	117.6	5.
Illinois																				
NADP																				
Argonne	98	77	95	75	37		.051	.033	1.12	.047	.031	.001	.007	.027	.044	.065	.084	.166	106.8	54.
Bondville	100	95	96	83	42		.046	.041	0.72	.052	.033	.005	.015	.028	.038	.077	.103	.148	88.8	41.
Dixon Springs	100	100	90	92	46		.032	.023	1.41	.040	.031	.000	.004	.016	.031	.065	.092	.110	152.7	49.
NIARC	100	99	94	81	41		.028	.011	1.81	.025	.020	.000	.001	.005	.026	.038	.056	.074	95.4	26.
Salem	98	100	102	90	44		.039	.037	0.98	.049	.033	.000	.014	.028	.042	.070	.086	.186	107.4	41.
Southern Ill U	100	100	99	92	46		.034	.036	0.76	.046	.031	.003	.014	.027	.036	.060	.101	.123	130.2	44.
MAP3s/PCN																				
Illinois	100	98	99	94	77		.050	.042	1.23	.063	.045	.000	.014	.032	.049	.091	.132	.186	90.5	45.

1982 Annual Summary

H+ (derived from pH)

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Min	10%	25%	50%	75%	90%	Max	Total Precip cm	H+ Dep mg/m2
Indiana																				
NADP																				
Indiana Dunes	98	100	83	87	44		.044	.029	1.30	.042	.026	.000	.011	.023	.038	.058	.077	.117	108.6	48.
UAPSP																				
Roanoke	100	98	94	98	98		.054	.039	1.20	.061	.052	.001	.013	.029	.048	.071	.126	.245	108.7	59.
Rockport	100	95	94	99	107		.052	.049	0.96	.068	.054	.001	.018	.032	.054	.079	.145	.275	115.2	60.
Kansas																				
UAPSP																				
Lancaster	100	99	90	97	95		.020	.011	1.35	.020	.019	.000	.002	.006	.015	.028	.049	.091	114.5	22.
Kentucky																				
UAPSP																				
Morehead	100	100	98	99	128		.062	.069	0.83	.095	.080	.007	.021	.041	.069	.125	.229	.389	124.0	77.
Maine																				
NADP																				
Caribou	100	92	90	87	43		.021	.015	1.10	.023	.019	.001	.003	.008	.017	.035	.052	.078	94.6	20.
Greenville Station	100	91	86	92	48		.029	.021	1.13	.033	.026	.001	.005	.010	.030	.049	.083	.100	85.6	25.
UAPSP																				
Winterport	100	96	98	97	101		.037	.041	0.90	.059	.051	.006	.012	.021	.046	.084	.119	.240	81.8	30.
Massachusetts																				
NADP																				
East	91	93	91	84	40		.048	.048	0.90	.067	.049	.005	.013	.026	.055	.102	.136	.204	96.1	46.
UAPSP																				
Turners Falls	100	100	92	99	83		.060	.061	0.89	.085	.067	.004	.019	.031	.065	.135	.166	.347	101.8	61.
Michigan																				
NADP																				
Kellogg	98	82	92	75	37		.049	.034	0.92	.044	.027	.002	.010	.026	.045	.056	.080	.148	85.2	41.
UAPSP																				
Gaylord	100	97	92	98	108		.037	.029	0.92	.043	.043	.003	.008	.016	.032	.049	.100	.257	68.6	25.
Minnesota																				
NADP																				
Fernberg	100	88	90	83	43		.011	.007	1.12	.013	.016	.001	.002	.003	.008	.012	.033	.069	79.0	9.
Lamberton	100	94	91	82	34		.003	.001	1.37	.003	.003	.000	.000	.001	.002	.004	.007	.012	77.4	3.
Marcell	100	97	93	88	47		.010	.006	1.19	.011	.014	.000	.001	.003	.007	.014	.027	.069	81.7	8.
Mississippi																				
NADP																				
Meridian	100	86	86	75	38		.022	.020	0.85	.028	.023	.004	.006	.011	.020	.037	.061	.105	165.1	36.
UAPSP																				
Clinton	100	100	100	100	110		.024	.028	0.88	.042	.053	.004	.008	.015	.031	.051	.083	.479	158.9	38.
Missouri																				
NADP																				
Ashland	100	99	97	90	43		.024	.017	1.18	.028	.030	.001	.004	.010	.018	.035	.060	.129	125.2	30.
University Forest	100	90	95	81	43		.029	.025	1.11	.037	.033	.000	.008	.017	.028	.046	.073	.148	135.8	40.
Montana																				
NADP																				
Glacier Nat Park	100	89	86	91	48		.006	.004	1.09	.005	.004	.000	.001	.002	.005	.008	.012	.012	91.9	5.
Nebraska																				
NADP																				
Mead	100	94	100	81	34		.006	.003	1.39	.007	.011	.000	.000	.001	.003	.010	.017	.062	95.6	6.
New Hampshire																				
NADP																				
Hubbard Brook	100	90	91	83	42		.046	.037	1.09	.054	.046	.001	.013	.025	.046	.071	.106	.257	101.6	47.

H+ (derived from pH)

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Min	10%	25%	50%	75%	90%	Max	Total Precip cm	H+ Dep mg/m2
New York																				
NADP																				
Aurora	100	98	88	92	46		.063	.048	1.17	.071	.058	.000	.019	.032	.058	.085	.139	.302	74.4	47.
Chautauqua	100	98	88	89	46		.060	.053	0.90	.067	.037	.000	.027	.038	.060	.088	.119	.158	95.6	58.
Jasper	96	75	97	75	36		.049	.047	0.73	.060	.039	.011	.017	.023	.053	.085	.122	.178	75.9	37.
Knobit	98	93	100	88	44		.040	.034	0.97	.052	.052	.003	.012	.018	.032	.077	.107	.224	78.1	31.
Stilwell Lake	100	93	94	89	46		.049	.050	0.89	.067	.050	.001	.017	.030	.052	.094	.136	.234	115.7	57.
MAP3s/PCN																				
Brookhaven	100	100	99	98	62		.039	.045	1.03	.070	.062	.003	.013	.022	.041	.108	.170	.257	107.4	42.
Ithaca	100	97	96	99	79		.064	.072	0.71	.093	.078	.014	.032	.047	.074	.110	.186	.479	93.4	59.
Whiteface	99	98	115	95	88		.041	.043	0.83	.057	.039	.002	.014	.027	.045	.081	.107	.182	82.2	34.
North Carolina																				
NADP																				
Coweeta	100	86	97	87	46		.022	.022	0.63	.027	.015	.006	.008	.014	.025	.035	.052	.058	182.5	41.
Finley (A)	100	78	94	77	39		.033	.027	0.93	.038	.035	.001	.008	.015	.028	.040	.083	.158	117.7	39.
Lewiston	100	100	103	94	45		.032	.027	0.78	.035	.026	.002	.010	.017	.025	.049	.078	.110	116.4	37.
Piedmont Station	100	99	96	89	46		.045	.032	1.21	.050	.037	.001	.005	.022	.042	.078	.100	.158	109.2	49.
R Triangle Inst	100	94	101	83	40		.036	.020	1.59	.036	.028	.000	.001	.020	.035	.048	.065	.141	139.4	50.
R Triangle Park	100	100	90	92	42		.040	.035	0.60	.042	.029	.010	.015	.026	.036	.047	.072	.158	149.7	60.
UAPSP																				
Raleigh	100	97	94	93	88		.042	.038	1.03	.058	.055	.001	.010	.025	.042	.071	.133	.347	114.7	48.
North Dakota																				
NADP																				
Teddy Roosevelt NP	100	83	88	76	36		.006	.004	1.26	.007	.007	.000	.001	.001	.005	.011	.021	.023	54.2	3.
Ohio																				
NADP																				
Caldwell	100	90	99	91	43		.066	.064	0.61	.075	.040	.010	.035	.049	.066	.095	.141	.186	96.2	64.
Delaware	100	98	102	92	47		.053	.042	1.18	.063	.054	.000	.015	.035	.046	.069	.129	.295	81.5	43.
Wooster	100	88	98	83	43		.057	.051	0.65	.061	.036	.005	.029	.034	.051	.081	.106	.186	87.7	50.
MAP3s/PCN																				
Oxford	100	98	109	95	72		.054	.058	0.68	.073	.055	.006	.030	.036	.056	.091	.146	.309	99.0	54.
UAPSP																				
Zanesville	100	100	99	100	100		.068	.067	0.74	.087	.076	.007	.025	.044	.069	.112	.151	.575	90.0	61.
Pennsylvania																				
NADP																				
Leading Ridge	100	100	90	98	50		.069	.060	0.68	.072	.042	.007	.025	.042	.066	.091	.149	.178	104.1	72.
MAP3s/PCN																				
Penn State	99	98	116	95	79		.069	.071	0.81	.089	.054	.001	.031	.050	.083	.115	.158	.245	85.1	58.
UAPSP																				
Scranton	100	97	96	96	103		.066	.063	0.92	.086	.062	.001	.023	.038	.069	.120	.194	.240	75.1	50.
South Dakota																				
UAPSP																				
Brookings	100	91	105	98	57		.006	.004	1.05	.006	.007	.000	.001	.002	.003	.008	.018	.042	61.9	4.
Brookings-2	100	90	102	98	53		.005	.003	1.13	.005	.007	.000	.001	.001	.003	.006	.016	.040	61.2	3.
Tennessee																				
NADP																				
Elkmont	98	82	101	81	43		.022	.020	0.89	.029	.026	.003	.006	.010	.020	.045	.058	.129	153.5	34.
Walker Branch	100	94	96	92	48		.047	.040	0.82	.050	.031	.001	.015	.030	.045	.061	.094	.186	145.3	68.
MAP3s/PCN																				
Oak Ridge	100	100	100	99	62		.051	.050	0.59	.058	.034	.010	.024	.033	.049	.083	.103	.186	148.1	76.
UAPSP																				
Alamo	100	99	87	100	49		.031	.025	1.51	.042	.033	.000	.009	.015	.033	.062	.095	.129	120.7	37.

H+ (derived from pH)

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	10%	25%	50%	75%	90%	Max	Total Precip cm	H+ Dep mg/m2
Texas																				
NADP																				
Forest Seed Ctr	100	82	97	79	36		.014	.009	1.56	.018	.017	.000	.001	.007	.015	.022	.039	.079	127.4	18.
K-Bar	98	85	91	79	23		.002	.001	1.12	.002	.002	.000	.000	.001	.001	.004	.005	.005	37.5	1.
Victoria	100	99	100	85	33		.011	.009	1.23	.017	.020	.001	.001	.004	.012	.017	.052	.076	84.0	9.
UAPSP																				
Marshall	100	86	101	98	76		.030	.029	0.98	.042	.042	.000	.010	.018	.028	.060	.088	.251	103.0	31.
Vermont																				
NADP																				
Bennington	100	81	98	83	43		.044	.032	0.90	.045	.035	.002	.010	.018	.039	.060	.102	.141	87.0	38.
UAPSP																				
Underhill Center	100	99	93	95	200		.049	.048	0.94	.069	.060	.003	.013	.027	.051	.102	.144	.324	159.7	78.
Virginia																				
MAP3s/PCN																				
Virginia	98	97	100	96	51		.066	.060	0.73	.078	.063	.013	.025	.036	.062	.087	.182	.316	89.7	59.
Washington																				
NADP																				
Olympic Nat. Park	100	81	98	89	45		.004	.003	0.68	.004	.002	.000	.001	.002	.003	.004	.006	.015	366.5	15.
West Virginia																				
NADP																				
Parsons	100	100	92	96	50		.049	.039	0.93	.051	.032	.001	.014	.030	.049	.065	.098	.138	151.6	74.
Wisconsin																				
NADP																				
Trout Lake	100	76	92	76	40		.021	.010	1.36	.018	.018	.000	.002	.004	.012	.026	.042	.085	104.3	22.
Wyoming																				
NADP																				
Newcastle	100	95	89	87	42		.007	.003	1.20	.005	.005	.000	.001	.001	.003	.008	.012	.016	46.6	3.
British Columbia																				
CANSAP																				
Kelowna	100	100	81	100	12		.012	.012	0.73	.016	.015	.006	.006	.007	.008	.020	.047	.050	50.3	6.
Port Hardy	100	100	80	100	12		.010	.011	0.65	.014	.013	.006	.006	.007	.009	.019	.043	.050	174.9	18.
Revelstoke	100	100	88	100	12		.009	.007	0.74	.009	.006	.002	.002	.005	.008	.010	.020	.020	112.9	10.
Manitoba																				
CANSAP																				
Bissett	100	100	82	100	12		.012	.006	1.10	.010	.013	.001	.002	.004	.006	.009	.041	.050	59.2	7.
Dauphin	92	100	92	92	11		.002	.001	1.92	.003	.006	.000	.000	.000	.001	.004	.017	.020	50.7	1.
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	90	100	12		.034	.033	0.58	.038	.018	.010	.012	.021	.040	.050	.063	.063	126.6	43.
Charlo	92	100	75	92	11		.024	.013	1.58	.029	.030	.001	.001	.003	.020	.040	.093	.100	89.0	21.
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	97	100	12		.031	.030	0.55	.035	.018	.010	.012	.021	.032	.040	.071	.079	127.8	39.
Shelburne	100	100	87	100	12		.039	.038	0.43	.042	.017	.020	.020	.027	.040	.050	.075	.079	129.4	51.
Truro	99	88	82	91	11		.043	.040	0.55	.046	.028	.020	.021	.025	.032	.079	.096	.100	101.8	43.
APN																				
Kejimkujik	100	99	103	94	139		.027	.023	1.46	.048	.068	.000	.004	.010	.025	.050	.100	.398	126.2	35.
Ontario																				
CANSAP																				
Atikokan	100	100	80	100	12		.018	.014	1.04	.019	.014	.001	.002	.008	.016	.032	.040	.040	82.2	15.
Dorset	100	100	89	100	12		.083	.079	0.43	.087	.043	.050	.050	.050	.079	.100	.177	.200	113.6	94.
Kingston	100	100	81	100	12		.109	.067	1.56	.106	.063	.001	.010	.067	.100	.158	.200	.200	101.6	110.

H+ (derived from pH)

State							Concentration					Percentiles							Total	H+
Network			%				Wtd	Geometric		Arithmetic		mg/l							Precip	Dep
Site Name	% PCL	% TP	Col Eff	% VSL	N	N BDL	Mean mg/l	Mean mg/l	SD	Mean mg/l	SD mg/l	Min	10%	25%	50%	75%	90%	Max	cm	mg/m2
Peterborough	100	100	84	100	12		.064	.036	1.64	.061	.040	.000	.003	.040	.057	.091	.126	.126	88.8	57.
Pickle Lake	99	100	79	99	12		.022	.016	0.88	.021	.017	.003	.003	.010	.020	.025	.056	.063	72.8	16.
Simcoe	96	100	79	96	12		.101	.087	0.63	.101	.050	.020	.026	.067	.100	.126	.187	.200	100.9	102.
APIOS-D																				
Dorset	100	78	91	79	116		.059	.047	0.93	.073	.081	.004	.013	.025	.052	.080	.161	.447	113.0	66.
Forbes Twsp.	100	78	98	84	75		.018	.012	1.30	.027	.046	.001	.002	.006	.013	.027	.047	.263	81.7	15.
Melborne	100	76	97	92	68		.077	.062	1.18	.096	.093	.000	.023	.037	.071	.119	.219	.525	89.3	68.
APN																				
Chalk River	100	95	96	96	113		.058	.040	1.21	.063	.056	.000	.011	.025	.050	.079	.158	.251	82.6	48.
ELA	100	98	91	94	91		.018	.008	1.44	.019	.025	.000	.001	.003	.008	.025	.050	.126	69.0	12.
Long Point	100	97	83	98	66		.085	.048	1.84	.102	.098	.000	.002	.040	.079	.134	.251	.631	83.0	70.
APIOS-C																				
Alvinston	100	93	79	85	11		.052	.029	1.67	.055	.039	.001	.001	.026	.050	.083	.119	.126	84.9	45.
Bear Island	100	96	120	92	12		.059	.058	0.66	.069	.037	.013	.016	.052	.060	.085	.139	.155	64.9	38.
Dorset	100	100	87	100	13		.067	.064	0.34	.067	.024	.035	.040	.050	.059	.086	.110	.117	103.2	69.
McKellar	100	98	76	92	12		.071	.066	0.57	.076	.042	.027	.029	.037	.073	.093	.157	.170	93.4	66.
Ramsey	100	100	103	100	13		.047	.048	0.57	.055	.033	.012	.019	.039	.049	.060	.121	.155	68.6	32.
Wilberforce	100	80	78	76	10		.071	.067	0.36	.071	.026	.036	.037	.053	.067	.086	.117	.117	111.0	79.
Quebec																				
APN																				
Montmorency	100	96	89	86	149		.040	.023	1.46	.045	.049	.000	.004	.013	.032	.063	.100	.316	123.6	49.
Saskatchewan																				
CANSAP																				
Cree Lake	100	100	77	100	12		.009	.003	1.23	.006	.009	.001	.001	.001	.002	.008	.026	.032	53.3	5.

Sulfate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Concentration Geometric Mean mg/l	Concentration Geometric SD	Concentration Arithmetic Mean mg/l	Concentration Arithmetic SD mg/l	Percentiles mg/l Min	Percentiles mg/l 10%	Percentiles mg/l 25%	Percentiles mg/l 50%	Percentiles mg/l 75%	Percentiles mg/l 90%	Percentiles mg/l Max	Total Precip cm	SO4 Dep g/m2
Alabama																				
UAPSP																				
Selma	100	100	92	99	153		1.31	1.50	0.77	2.07	2.23	0.26	0.62	0.88	1.44	2.45	4.25	19.25	235.8	3.09
Selma-2	100	100	93	99	101		1.42	1.50	0.79	2.12	2.59	0.12	0.68	0.87	1.46	2.21	4.08	19.92	141.6	2.01
Arizona																				
NADP																				
Oliver Knoll	100	79	93	83	28		2.19	2.33	0.73	2.99	2.14	0.63	0.80	1.32	2.11	4.68	6.32	7.66	35.5	.78
Organ Pipe Mon.	98	75	100	79	21	1	.83	1.11	1.15	1.98	2.64	0.10	0.33	0.61	1.16	2.17	5.27	11.99	26.6	.22
Arkansas																				
NADP																				
Fayetteville	100	98	95	84	37		1.16	1.62	0.68	2.08	1.92	0.40	0.67	1.13	1.45	2.41	4.18	11.33	142.3	1.66
California																				
NADP																				
Davis	100	96	99	87	19		.58	.61	0.53	.70	.43	0.29	0.30	0.39	0.55	0.77	1.39	1.88	83.0	.48
Hopland (Ukiah)	100	98	98	89	27	4	.33	.37	0.92	.52	.48	0.10	0.10	0.29	0.36	0.79	1.01	2.39	118.3	.39
Sequoia Nat. Park	100	86	92	83	30	3	.33	.47	1.16	.85	.97	0.10	0.11	0.27	0.38	1.40	2.17	3.84	203.1	.66
Tanbark Flat	97	81	94	86	29		.98	2.11	1.37	5.52	9.06	0.24	0.41	0.78	1.87	5.68	15.51	34.50	95.6	.94
Colorado																				
NADP																				
Manitou	100	83	89	81	33	1	1.02	.95	0.87	1.26	.85	0.10	0.26	0.63	1.16	1.46	2.61	3.52	45.6	.46
Mesa Verde	100	92	92	83	36		1.43	1.69	0.86	2.45	2.37	0.44	0.55	0.84	1.52	2.73	6.06	9.62	64.9	.93
Pawnee	100	98	97	83	31		.84	1.22	0.85	1.65	1.30	0.12	0.37	0.79	1.25	2.39	3.57	5.76	41.4	.35
Rocky Mt. Nat Park	100	94	95	79	40		.91	1.00	0.67	1.27	1.13	0.25	0.39	0.69	0.98	1.37	2.36	6.71	36.8	.34
Sand Spring	100	97	89	94	44	1	.95	1.01	0.77	1.41	1.63	0.19	0.40	0.70	0.89	1.55	3.12	10.09	37.2	.35
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	96	62		2.02	1.96	0.89	2.74	2.25	0.18	0.57	1.13	2.02	3.86	5.64	12.48	98.0	1.98
Florida																				
NADP																				
Bradford Forest	100	95	86	89	41	1	1.26	1.15	0.77	1.54	1.87	0.10	0.65	0.84	1.11	1.78	2.38	12.44	150.4	1.90
Everglades Nat. Pa	98	76	99	79	40	1	.74	.90	0.80	1.19	1.02	0.10	0.47	0.66	0.83	1.48	2.27	5.72	161.4	1.19
Georgia																				
NADP																				
Georgia Station	100	99	98	91	44		1.73	1.53	0.85	2.19	2.36	0.19	0.51	0.84	1.42	2.84	4.43	14.44	137.4	2.38
UAPSP																				
Uvalda	100	100	96	99	78		1.07	1.06	0.86	1.51	1.31	0.23	0.34	0.51	1.16	2.26	3.33	5.47	107.5	1.15
Hawaii																				
NADP																				
Mauna Loa	100	97	95	92	36	12	.27	.23	1.15	.40	.41	0.10	0.10	0.10	0.32	0.53	1.11	1.79	117.6	.31
Illinois																				
NADP																				
Argonne	98	77	95	75	37		3.18	3.43	0.61	4.03	2.18	0.69	1.34	2.71	3.53	5.10	8.08	8.89	106.8	3.40
Bondville	100	95	96	83	42		2.69	3.13	0.55	3.63	2.09	1.14	1.60	2.00	2.66	4.70	6.93	9.86	88.8	2.39
Dixon Springs	100	100	90	92	46		2.28	3.08	0.66	3.82	2.86	0.82	1.39	1.88	3.17	4.67	7.87	16.25	152.7	3.48
NIARC	100	99	94	81	41		2.50	3.00	0.63	3.69	3.00	0.79	1.39	2.05	3.18	4.66	6.19	19.39	95.4	2.38
Salem	98	100	102	90	44		2.39	2.84	0.63	3.37	1.98	0.51	1.13	2.08	2.72	4.56	5.66	10.69	107.4	2.56
Southern Ill U	100	100	99	92	46		2.10	2.69	0.70	3.32	2.04	0.51	0.98	1.79	2.68	5.01	6.54	7.86	130.2	2.73
MAP3s/PCN																				
Illinois	100	98	99	94	77		3.10	3.29	0.75	4.19	2.91	0.24	1.48	2.06	3.36	5.52	8.37	15.36	90.5	2.80

Sulfate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	SO4 Dep g/m2
Indiana																				
NADP																				
Indiana Dunes	98	100	83	87	44		2.97	2.89	0.53	3.31	1.89	0.98	1.39	2.17	2.63	4.42	5.59	9.41	108.6	3.22
UAPSP																				
Roanoke	100	97	95	97	95		2.91	2.73	0.72	3.56	2.96	0.66	1.08	1.74	2.68	4.03	7.65	14.52	108.7	3.16
Rockport	100	94	94	98	106		2.75	2.75	0.73	3.56	2.75	0.35	1.17	1.76	2.63	4.12	8.42	12.68	115.2	3.16
Kansas																				
UAPSP																				
Lancaster	100	99	90	97	94		1.56	1.59	0.86	2.22	1.95	0.18	0.45	0.92	1.67	2.86	4.39	12.38	114.5	1.79
Kentucky																				
UAPSP																				
Morehead	100	100	98	98	124		2.42	2.45	0.84	3.40	2.96	0.29	0.67	1.51	2.51	4.51	7.15	18.51	124.0	3.00
Maine																				
NADP																				
Caribou	100	92	90	87	43		1.22	1.32	0.81	1.83	1.62	0.29	0.48	0.72	1.24	2.79	3.05	8.70	94.6	1.16
Greenville Station	100	91	86	92	48	2	1.58	1.27	1.01	1.87	1.64	0.10	0.49	0.73	1.46	2.57	3.97	9.08	85.6	1.35
UAPSP																				
Winterport	100	96	98	96	99		1.44	1.50	1.03	2.37	2.30	0.10	0.41	0.66	1.58	3.21	5.26	12.35	81.8	1.18
Massachusetts																				
NADP																				
East	91	93	91	84	40		2.22	2.41	0.70	2.98	1.80	0.54	0.85	1.43	2.72	4.53	5.70	7.17	96.1	2.13
UAPSP																				
Turners Falls	100	100	92	99	82		2.23	1.98	0.99	3.08	3.09	0.17	0.57	1.02	2.00	4.43	6.96	16.44	101.8	2.27
Michigan																				
NADP																				
Kellogg	98	82	92	75	37		2.95	2.80	0.47	3.11	1.47	0.95	1.42	2.04	2.71	4.22	4.88	7.97	85.2	2.51
UAPSP																				
Gaylord	100	96	93	97	106		1.79	1.31	1.04	2.17	2.53	0.09	0.25	0.66	1.47	2.32	4.62	14.10	68.6	1.23
Minnesota																				
NADP																				
Fernberg	100	88	90	83	43		1.30	1.20	0.79	1.68	1.66	0.34	0.44	0.71	1.01	2.08	4.43	8.21	79.0	1.03
Lamberton	100	94	91	82	34	1	1.38	1.39	0.87	2.09	2.95	0.23	0.44	0.91	1.52	2.27	3.23	17.87	77.4	1.07
Marcell	100	97	93	88	47		1.29	1.33	0.76	1.79	1.68	0.31	0.51	0.72	1.35	1.90	4.14	8.89	81.7	1.05
Mississippi																				
NADP																				
Meridian	100	86	86	75	38		1.63	1.75	0.62	2.12	1.40	0.47	0.90	1.13	1.67	3.09	3.99	6.25	165.1	2.70
UAPSP																				
Clinton	100	100	100	99	106		1.10	1.28	0.85	1.79	1.58	0.17	0.39	0.75	1.29	2.33	3.80	8.26	158.9	1.75
Missouri																				
NADP																				
Ashland	100	99	97	90	43		1.77	2.06	0.65	2.51	1.59	0.46	0.82	1.27	2.25	3.29	5.25	6.90	125.2	2.22
University Forest	100	90	95	81	43		1.93	2.51	0.80	3.61	3.96	0.51	1.01	1.47	2.29	3.45	9.88	19.45	135.8	2.63
Montana																				
NADP																				
Glacier Nat Park	100	89	86	91	48	4	.44	.53	0.96	.75	.60	0.10	0.17	0.33	0.58	1.00	1.63	2.98	91.9	.40
Nebraska																				
NADP																				
Mead	100	94	100	81	34		1.40	2.01	0.75	2.67	2.42	0.27	0.88	1.34	1.88	3.36	6.02	12.33	95.6	1.34
New Hampshire																				
NADP																				
Hubbard Brook	100	90	91	83	42		1.99	1.90	0.75	2.53	2.41	0.47	0.66	1.01	2.11	2.89	5.03	14.05	101.6	2.02

Sulfate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Concentration: Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	10%	25%	50%	75%	90%	Max	Total Precip cm	SO4 Dep g/m2
New York																				
NADP																				
Aurora	100	98	88	92	46		3.28	3.33	0.75	4.38	3.67	0.57	1.35	1.89	3.19	5.90	9.40	17.59	74.4	2.44
Chautauqua	100	98	88	89	46		3.09	3.43	0.58	4.09	2.73	1.34	1.61	2.19	3.22	5.64	7.34	15.45	95.6	2.95
Jasper	96	75	97	75	36		2.40	2.59	0.78	3.42	2.64	0.54	0.94	1.40	2.63	4.81	7.64	11.35	75.9	1.82
Knobit	98	93	100	88	44		2.07	2.01	0.92	3.35	5.00	0.44	0.65	1.05	1.93	3.50	6.02	27.45	78.1	1.62
Stilwell Lake	100	93	94	89	46		2.29	2.57	0.80	3.50	3.07	0.68	0.80	1.46	2.74	4.34	6.78	16.48	115.7	2.64
MAP3s/PCN																				
Brookhaven	100	99	99	97	61		1.99	2.11	1.07	3.24	2.83	0.05	0.70	1.20	2.11	4.66	8.74	11.52	107.4	2.13
Ithaca	100	99	97	99	80		2.75	2.94	0.92	4.44	4.50	0.36	0.86	1.73	2.83	5.04	11.42	21.12	93.4	2.57
Whiteface	99	97	115	95	87		1.92	1.84	0.84	2.60	2.47	0.20	0.60	1.06	1.92	3.26	5.89	16.32	82.2	1.58
North Carolina																				
NADP																				
Coweeta	100	86	97	87	46	1	1.29	1.40	0.63	1.68	.97	0.41	0.54	0.91	1.44	2.48	2.96	4.07	182.5	2.36
Finley (A)	100	78	94	77	39		1.99	2.07	0.68	2.64	2.09	0.69	0.90	1.21	1.84	3.08	6.32	8.89	117.7	2.34
Lewiston	100	100	103	94	45		1.84	2.04	0.74	2.74	2.69	0.41	0.90	1.20	1.74	3.27	5.51	16.34	116.4	2.14
Piedmont Station	100	99	96	89	46		2.67	2.91	0.74	3.69	2.35	0.34	1.16	1.67	2.94	5.82	6.94	10.13	109.2	2.91
R Triangle Inst	100	94	101	83	40		2.01	2.01	0.56	2.37	1.55	0.72	0.94	1.45	1.99	2.96	4.53	8.21	139.4	2.80
R Triangle Park	100	100	90	92	42		1.93	1.88	0.54	2.20	1.45	0.76	0.87	1.37	1.78	2.50	3.99	7.82	149.7	2.90
UAPSP																				
Raleigh	100	97	94	93	86		1.83	1.78	0.82	2.57	2.77	0.39	0.62	1.02	1.67	2.77	6.44	18.88	114.7	2.10
North Dakota																				
NADP																				
Teddy Roosevelt NP	100	83	88	76	36	1	.99	1.14	0.64	1.37	.81	0.25	0.49	0.82	1.37	1.68	2.35	3.96	54.2	.54
Ohio																				
NADP																				
Caldwell	100	90	99	91	43		3.34	3.78	0.54	4.35	2.39	1.62	1.77	2.28	4.20	5.53	7.76	12.86	96.2	3.21
Delaware	100	98	102	92	47		3.03	3.77	0.71	4.98	4.51	1.11	1.55	2.27	2.88	6.36	11.50	24.86	81.5	2.47
Wooster	100	88	98	83	43		3.30	3.67	0.64	4.48	3.14	0.73	1.65	2.42	3.61	5.06	9.05	16.19	87.7	2.90
MAP3s/PCN																				
Oxford	100	98	109	95	72		3.24	3.16	0.76	4.18	3.49	0.36	1.34	1.94	3.02	5.21	8.64	17.28	99.0	3.20
UAPSP																				
Zanesville	100	100	99	100	100		2.84	3.05	0.73	3.97	3.41	0.50	1.19	1.95	3.24	4.57	7.51	23.29	90.0	2.56
Pennsylvania																				
NADP																				
Leading Ridge	100	100	90	98	50		3.51	3.36	0.75	4.41	3.63	0.59	1.07	2.27	3.32	5.43	9.46	20.71	104.1	3.66
MAP3s/PCN																				
Penn State	99	98	116	95	80		3.57	3.64	0.79	4.82	3.60	0.52	1.17	1.94	3.84	6.84	9.60	18.24	85.1	3.04
UAPSP																				
Scranton	100	97	96	96	104		2.71	2.44	1.00	3.82	3.67	0.31	0.57	1.36	2.44	4.98	9.81	18.88	75.1	2.03
South Dakota																				
UAPSP																				
Brookings	100	91	105	98	57		1.09	1.05	0.84	1.40	1.07	0.06	0.39	0.69	1.08	1.85	3.00	4.67	61.9	.68
Brookings-2	100	90	102	98	53		1.10	1.05	0.76	1.34	.92	0.09	0.41	0.71	1.07	1.85	2.62	4.30	61.2	.67
Tennessee																				
NADP																				
Elkmont	98	82	101	81	43		1.41	1.50	0.77	2.07	2.19	0.40	0.53	0.81	1.40	2.56	3.95	13.10	153.5	2.17
Walker Branch	100	94	96	92	48		2.54	2.51	0.64	3.07	2.64	0.31	1.08	1.87	2.75	3.58	4.75	19.11	145.3	3.69
MAP3s/PCN																				
Oak Ridge	100	100	100	99	62		2.64	2.58	0.60	3.03	1.74	0.41	1.18	1.80	2.54	4.22	5.41	10.08	148.1	3.90
UAPSP																				
Alamo	100	99	87	100	49		1.61	1.80	0.91	2.75	3.63	0.21	0.47	1.14	1.77	3.05	5.26	24.98	120.7	1.94

Sulfate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	SO4 Dep g/m2
Texas																				
NADP																				
Forest Seed Ctr	100	82	97	79	36		1.51	1.69	0.68	2.12	1.51	0.47	0.66	1.05	1.62	2.32	4.80	5.95	127.4	1.93
K-Bar	98	85	91	79	23		1.36	1.27	0.75	1.69	1.63	0.31	0.42	0.71	1.31	1.83	3.04	8.21	37.5	.51
Victoria	100	99	100	85	33		1.22	1.98	0.90	3.07	3.74	0.53	0.60	0.91	1.66	3.81	6.43	20.54	84.0	1.03
UAPSP																				
Marshall	100	86	101	98	76		1.52	1.80	0.79	2.50	2.60	0.32	0.65	1.17	1.61	2.92	4.70	17.11	103.0	1.56
Vermont																				
NADP																				
Bennington	100	81	98	83	43		2.31	2.00	0.82	2.73	2.26	0.42	0.59	1.16	2.07	3.86	6.16	11.28	87.0	2.01
UAPSP																				
Underhill Center	100	99	93	93	194		1.83	1.61	1.07	2.61	2.63	0.10	0.36	0.88	1.63	3.52	5.89	15.07	159.7	2.92
Virginia																				
MAP3s/PCN																				
Virginia	98	100	100	97	53		3.00	2.57	0.85	3.57	3.16	0.28	0.95	1.34	2.88	4.66	6.70	16.32	89.7	2.69
Washington																				
NADP																				
Olympic Nat. Park	100	81	98	89	45	8	.36	.39	1.17	.66	.66	0.10	0.10	0.26	0.46	0.77	1.93	2.38	366.5	1.32
West Virginia																				
NADP																				
Parsons	100	100	92	96	50		2.64	2.53	0.72	3.24	2.76	0.33	1.03	1.77	2.71	4.01	5.25	15.63	151.6	4.01
Wisconsin																				
NADP																				
Trout Lake	100	76	92	76	40		1.86	1.61	0.81	2.31	2.68	0.31	0.63	0.84	1.71	2.50	4.26	15.97	104.3	1.94
Wyoming																				
NADP																				
Newcastle	100	95	89	87	42	1	.89	.99	0.63	1.21	.88	0.34	0.45	0.62	0.95	1.59	2.42	4.55	46.6	.42
British Columbia																				
CANSAP																				
Kelowna	100	100	81	100	12	1	.67	.61	0.78	.77	.50	0.20	0.23	0.40	0.60	1.13	1.67	1.70	50.3	.34
Port Hardy	100	100	80	100	12		.87	.88	0.57	1.01	.58	0.30	0.33	0.63	0.90	1.30	2.17	2.50	174.9	1.51
Revelstoke	100	100	88	100	12	1	.56	.55	0.56	.60	.20	0.20	0.29	0.50	0.65	0.70	0.87	0.90	112.9	.63
Manitoba																				
CANSAP																				
Bissett	100	100	82	100	12		1.34	1.34	0.40	1.45	.65	0.80	0.83	0.93	1.25	1.88	2.74	3.10	59.2	.79
Dauphin	92	100	92	92	11		2.58	2.66	0.97	4.36	5.02	1.00	1.02	1.30	1.90	7.19	14.24	14.47	50.7	1.31
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	90	100	12		1.50	1.52	0.51	1.68	.71	0.50	0.59	1.10	1.70	2.35	2.67	2.70	126.6	1.90
Charlo	92	100	75	92	11		2.15	2.16	0.66	2.63	1.78	0.70	0.74	1.50	2.20	2.80	6.15	6.29	89.0	1.91
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	97	100	12		1.43	1.43	0.42	1.53	.52	0.50	0.65	1.13	1.60	1.90	2.28	2.40	127.8	1.82
Shelburne	100	100	87	100	12		1.83	1.82	0.27	1.88	.44	0.90	1.05	1.65	1.90	2.18	2.51	2.60	129.4	2.36
Truro	99	100	83	99	12		2.28	2.34	0.43	2.56	1.17	1.30	1.33	1.63	2.35	3.10	4.77	4.80	101.8	2.32
APN																				
Kejimkujik	100	100	103	97	150	11	1.36	1.51	1.15	2.65	3.21	0.20	0.40	0.90	1.60	3.20	6.93	20.26	126.2	1.72
Ontario																				
CANSAP																				
Atikokan	100	100	80	100	12		1.51	1.64	0.48	1.83	.92	0.80	0.80	1.23	1.65	2.10	3.69	3.90	82.2	1.24
Dorset	100	100	89	100	12		2.97	2.81	0.46	3.07	1.24	1.30	1.33	1.93	3.10	4.37	4.60	4.60	113.6	3.37
Kingston	100	100	81	100	12		4.33	4.21	0.29	4.38	1.25	2.60	2.69	3.42	4.15	5.37	6.30	6.39	101.6	4.40

Sulfate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	SO4 Dep g/m2
Peterborough	100	100	84	100	12		3.71	3.46	0.43	3.76	1.53	1.70	1.88	2.40	3.10	5.39	5.63	5.69	88.8	3.29
Pickle Lake	99	100	79	99	12		1.33	1.19	0.43	1.29	.58	0.70	0.70	0.83	1.10	1.85	2.32	2.50	72.8	.97
Simcoe	96	100	79	96	12		4.61	4.86	0.37	5.19	2.05	3.00	3.06	3.52	4.60	7.01	8.89	9.48	100.9	4.65
APIOS-D																				
Dorset	100	78	91	77	110	1	2.55	1.85	1.15	3.07	3.34	0.05	0.40	1.00	2.22	4.11	6.14	24.75	113.0	2.88
Forbes Twsp.	100	96	94	90	94	1	1.28	.86	1.01	1.34	1.29	0.05	0.25	0.40	0.87	1.91	3.17	6.80	81.7	1.04
Quetico Centre	100	96	95	97	94	2	1.05	.84	1.01	1.28	1.26	0.05	0.20	0.50	0.90	1.51	2.47	6.90	73.4	.77
Whitman Creek	100	85	80	94	74		3.09	2.43	0.90	3.34	2.40	0.10	0.72	1.25	2.80	5.16	6.45	10.80	58.5	1.81
APN																				
Chalk River	100	96	96	98	118	1	2.91	2.53	0.88	3.59	3.34	0.20	0.80	1.30	2.65	4.70	7.71	20.26	82.6	2.40
ELA	100	100	91	99	108	4	1.56	1.40	0.92	2.00	1.73	0.20	0.49	0.80	1.50	2.47	4.73	8.99	69.0	1.07
Long Point	100	97	82	99	69		5.99	6.37	0.83	9.38	11.44	0.90	2.30	3.60	6.29	10.63	19.16	75.05	83.0	4.97
APIOS-C																				
Alvinston	100	96	76	93	12		3.80	4.13	0.63	5.12	4.37	1.65	1.87	2.72	3.77	5.30	15.01	17.70	84.9	3.23
Bear Island	100	96	120	92	12		2.51	2.51	0.62	2.95	1.83	0.60	0.88	1.85	2.72	3.45	6.72	8.00	64.9	1.63
Coldwater	100	100	76	100	13		2.60	2.33	0.63	2.77	1.61	0.85	0.87	1.37	2.50	3.95	5.59	6.45	92.3	2.40
Dorset	100	100	87	100	13		2.81	2.51	0.59	2.94	1.73	0.95	1.05	1.52	2.40	4.07	6.11	7.15	103.2	2.90
McKellar	100	91	78	77	10		2.79	2.14	0.71	2.54	1.27	0.55	0.56	1.67	2.65	3.71	4.12	4.15	93.4	2.60
Nakina	100	100	78	100	13		1.42	1.31	0.47	1.46	.79	0.65	0.71	0.90	1.35	1.80	3.00	3.70	63.5	.90
Ramsey	100	100	103	100	13		1.98	1.87	0.69	2.38	2.17	0.45	0.65	1.30	1.95	2.62	6.67	9.25	68.6	1.36
Quebec																				
APN																				
Montmorency	100	97	89	90	165	9	1.71	1.21	1.05	1.94	2.05	0.20	0.30	0.70	1.30	2.60	4.30	15.97	123.6	2.11
Saskatchewan																				
CANSAP																				
Cree Lake	100	100	77	100	12		.73	.89	0.55	1.03	.59	0.40	0.43	0.55	0.80	1.53	2.07	2.10	53.3	.39

Nitrate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NO3 Dep g/m2
Alabama																				
UAPSP																				
Selma	100	100	92	99	153		.65	.82	0.77	1.09	.92	0.13	0.33	0.44	0.87	1.42	2.20	6.60	235.8	1.54
Selma-2	100	100	93	99	101		.67	.80	0.76	1.05	.87	0.15	0.28	0.48	0.89	1.37	2.01	6.83	141.6	.95
Arizona																				
NADP																				
Oliver Knoll	100	79	93	83	28	1	1.02	.87	1.28	1.54	1.88	0.02	0.22	0.46	0.98	2.14	3.13	9.70	35.5	.36
Organ Pipe Mon.	98	75	100	79	21	1	.63	.62	1.38	1.12	1.07	0.02	0.11	0.30	0.82	1.58	3.34	3.69	26.6	.17
Arkansas																				
NADP																				
Fayetteville	100	98	95	84	37		.64	.97	0.72	1.23	.86	0.18	0.31	0.62	1.08	1.71	2.61	4.10	142.3	.91
California																				
NADP																				
Davis	100	96	99	87	19		.86	.89	0.61	1.07	.69	0.32	0.39	0.52	0.78	1.40	2.39	2.58	83.0	.71
Hopland (Ukiah)	100	98	98	89	27		.24	.32	1.02	.53	.56	0.06	0.12	0.15	0.25	0.76	1.62	1.97	118.3	.29
Sequoia Nat. Park	100	86	92	83	30		.24	.46	1.45	1.22	1.65	0.06	0.07	0.16	0.29	2.34	4.00	5.53	203.1	.48
Tanbark Flat	97	81	94	86	29		1.20	2.71	1.54	8.40	14.10	0.19	0.46	0.94	1.86	8.52	36.19	56.88	95.6	1.15
Colorado																				
NADP																				
Manitou	100	83	89	81	33		1.13	1.23	0.61	1.47	.92	0.36	0.54	0.76	1.14	1.94	3.00	4.31	45.6	.52
Mesa Verde	100	92	92	83	36	1	.89	.88	1.11	1.39	1.48	0.02	0.33	0.51	0.97	1.50	3.89	7.09	64.9	.58
Pawnee	100	98	97	83	31		.87	1.21	0.62	1.47	1.02	0.37	0.56	0.72	1.21	2.04	2.60	5.46	41.4	.36
Rocky Mt. Nat Park	100	94	95	79	40		.93	.99	0.65	1.21	.79	0.23	0.40	0.62	1.09	1.55	1.97	3.79	36.8	.34
Sand Spring	100	97	89	94	44	1	.80	.92	1.05	1.44	1.72	0.02	0.36	0.51	0.93	1.55	2.84	8.51	37.2	.30
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	96	62		1.00	1.11	1.04	1.76	1.73	0.08	0.23	0.59	1.27	2.19	3.89	8.06	98.0	.98
Florida																				
NADP																				
Bradford Forest	100	95	86	89	41	1	.66	.66	0.90	.86	.66	0.02	0.32	0.44	0.72	1.14	1.35	4.04	150.4	1.00
Everglades Nat. Pa	98	76	99	79	40	5	.52	.30	1.48	.56	.53	0.02	0.02	0.20	0.46	0.73	1.24	2.67	161.4	.83
Georgia																				
NADP																				
Georgia Station	100	99	98	91	44		.72	.70	0.78	.90	.63	0.06	0.29	0.37	0.73	1.38	1.82	2.88	137.4	.98
UAPSP																				
Uvalda	100	100	96	99	78		.61	.72	0.82	.99	.87	0.16	0.23	0.34	0.85	1.24	2.11	4.59	107.5	.66
Hawaii																				
NADP																				
Mauna Loa	100	97	95	92	36	7	.07	.07	1.14	.13	.15	0.02	0.02	0.05	0.09	0.16	0.24	0.83	117.6	.09
Illinois																				
NADP																				
Argonne	98	77	95	75	37		1.57	1.84	0.62	2.23	1.53	0.57	0.88	1.26	1.64	2.69	4.70	6.81	106.8	1.67
Bondville	100	95	96	83	42		1.32	1.63	0.60	1.94	1.19	0.47	0.74	0.94	1.79	2.43	3.31	5.40	88.8	1.17
Dixon Springs	100	100	90	92	46		1.04	1.57	0.80	2.24	2.56	0.31	0.53	0.89	1.53	2.73	4.41	16.28	152.7	1.59
NIARC	100	99	94	81	41		1.33	1.75	0.68	2.19	1.53	0.44	0.79	1.12	1.43	3.04	4.81	5.89	95.4	1.27
Salem	98	100	102	90	44		1.18	1.44	0.68	1.80	1.25	0.33	0.55	0.81	1.53	2.24	3.15	6.27	107.4	1.27
Southern Ill U	100	100	99	92	46		1.02	1.42	0.77	1.86	1.40	0.31	0.45	0.84	1.68	2.40	3.82	6.93	130.2	1.32
MAP3s/PCN																				
Illinois	100	98	99	94	77		1.57	2.00	0.68	2.51	1.76	0.44	0.86	1.05	2.17	3.19	5.83	8.06	90.5	1.42

1982 Annual Summary

Nitrate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration												Total Precip cm	NO3 Dep g/m2
							Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l								
												Min	10%	25%	50%	75%	90%	Max		
Indiana																				
NADP																				
Indiana Dunes	98	100	83	87	44		1.66	1.81	0.66	2.26	1.69	0.56	0.78	1.08	1.71	2.73	4.70	9.02	108.6	1.80
UAPSP																				
Roanoke	100	97	95	97	95		1.75	1.85	0.92	2.70	2.45	0.05	0.65	0.95	1.81	3.61	6.66	11.71	108.7	1.91
Rockport	100	94	94	98	106	2	1.20	1.25	1.04	1.86	1.86	0.00	0.50	0.76	1.37	2.28	3.90	13.48	115.2	1.38
Kansas																				
UAPSP																				
Lancaster	100	99	90	97	94		1.13	1.28	0.77	1.67	1.24	0.17	0.51	0.76	1.34	2.14	3.34	5.75	114.5	1.30
Kentucky																				
UAPSP																				
Morehead	100	100	98	98	124		1.25	1.49	0.84	2.10	2.02	0.13	0.54	0.88	1.47	2.75	4.63	16.23	124.0	1.55
Maine																				
NADP																				
Caribou	100	92	90	87	43		.70	.84	0.82	1.14	.89	0.17	0.24	0.55	0.82	1.70	2.44	4.12	94.6	.66
Greenville Station	100	91	86	92	48	1	.96	.96	1.09	1.45	1.25	0.02	0.28	0.47	1.19	2.01	3.20	5.59	85.6	.82
UAPSP																				
Winterport	100	96	98	96	99		.87	.95	1.07	1.54	1.51	0.10	0.21	0.39	1.15	2.10	3.91	7.86	81.8	.71
Massachusetts																				
NADP																				
East	91	93	91	84	40		1.19	1.50	0.95	2.15	1.58	0.18	0.43	0.69	1.86	3.50	4.45	5.52	96.1	1.15
UAPSP																				
Turners Falls	100	100	92	99	82		1.49	1.63	1.01	2.54	2.30	0.16	0.41	0.66	1.74	3.86	5.92	9.53	101.8	1.51
Michigan																				
NADP																				
Kellogg	98	82	92	75	37		1.91	2.05	0.45	2.26	1.00	0.66	1.17	1.39	2.00	2.85	3.80	5.11	85.2	1.63
UAPSP																				
Gaylord	100	96	93	97	106		1.32	1.07	1.01	1.67	1.69	0.06	0.23	0.65	1.12	2.01	4.08	8.87	68.6	.91
Minnesota																				
NADP																				
Fernberg	100	88	90	83	43	1	.86	.98	1.09	1.54	1.59	0.02	0.38	0.55	0.94	1.94	4.84	6.39	79.0	.68
Lamberton	100	94	91	82	34		1.09	1.35	0.72	1.80	1.91	0.39	0.57	0.78	1.29	2.13	3.54	11.21	77.4	.84
Marcell	100	97	93	88	47	1	.95	1.11	0.96	1.58	1.82	0.02	0.55	0.74	1.09	1.65	2.74	12.31	81.7	.78
Mississippi																				
NADP																				
Meridian	100	86	86	75	38	1	.84	.86	0.94	1.12	.74	0.02	0.46	0.58	0.93	1.39	2.27	3.57	165.1	1.39
UAPSP																				
Clinton	100	100	100	99	106		.65	.86	0.94	1.28	1.19	0.10	0.25	0.43	0.81	1.69	3.01	5.64	158.9	1.04
Missouri																				
NADP																				
Ashland	100	99	97	90	43		1.12	1.36	0.68	1.71	1.20	0.38	0.53	0.87	1.21	2.72	3.89	4.71	125.2	1.40
University Forest	100	90	95	81	43		1.00	1.55	0.82	2.28	2.70	0.37	0.54	0.78	1.62	2.58	4.68	14.64	135.8	1.35
Montana																				
NADP																				
Glacier Nat Park	100	89	86	91	48		.39	.48	0.67	.59	.40	0.12	0.21	0.29	0.52	0.86	1.04	2.33	91.9	.35
Nebraska																				
NADP																				
Mead	100	94	100	81	34		1.14	1.72	0.78	2.44	2.60	0.44	0.81	0.89	1.55	2.22	8.68	10.03	95.6	1.08
New Hampshire																				
NADP																				
Hubbard Brook	100	90	91	83	42		1.55	1.61	0.74	2.09	1.62	0.24	0.68	0.94	1.74	2.63	4.52	7.93	101.6	1.58

Nitrate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration: Wtd Mean mg/l	Concentration: Geometric Mean mg/l	Concentration: Geometric SD	Concentration: Arithmetic Mean mg/l	Concentration: Arithmetic SD mg/l	Percentiles mg/l: Min	Percentiles mg/l: 10%	Percentiles mg/l: 25%	Percentiles mg/l: 50%	Percentiles mg/l: 75%	Percentiles mg/l: 90%	Percentiles mg/l: Max	Total Precip cm	NO3 Dep g/m2
New York																				
NADP																				
Aurora	100	98	88	92	46		2.10	2.50	0.67	3.12	2.25	0.74	1.04	1.53	2.24	4.16	6.48	12.04	74.4	1.56
Chautauqua	100	98	88	89	46		1.94	2.39	0.62	2.96	2.43	0.81	1.22	1.54	2.17	3.47	5.53	14.09	95.6	1.85
Jasper	96	75	97	75	36		1.58	2.01	0.67	2.46	1.51	0.58	0.75	1.11	2.21	3.64	4.44	7.15	75.9	1.20
Knobit	98	93	100	88	44		1.41	1.63	0.90	2.55	3.18	0.39	0.52	0.79	1.42	3.00	5.75	17.02	78.1	1.10
Stilwell Lake	100	93	94	89	46		1.41	1.86	0.87	2.75	2.84	0.48	0.64	0.92	1.62	3.66	6.35	14.11	115.7	1.63
MAP3s/PCN																				
Brookhaven	100	100	99	98	62	1	1.00	1.14	1.38	2.17	2.08	0.02	0.23	0.54	1.09	3.70	5.07	8.06	107.4	1.08
Ithaca	100	99	97	99	80		1.91	2.29	0.74	2.98	2.43	0.37	0.94	1.38	2.39	3.95	6.13	17.36	93.4	1.78
Whiteface	99	97	115	95	87		1.14	1.34	0.83	1.83	1.47	0.21	0.39	0.68	1.49	2.42	3.98	6.82	82.2	.94
North Carolina																				
NADP																				
Coweeta	100	86	97	87	46	1	.62	.71	0.92	.93	.62	0.02	0.23	0.53	0.80	1.22	1.67	3.39	182.5	1.13
Finley (A)	100	78	94	77	39		1.00	1.16	0.68	1.45	1.01	0.35	0.46	0.73	1.07	1.71	3.30	4.00	117.7	1.18
Lewiston	100	100	103	94	45	1	.97	1.01	1.05	1.51	1.44	0.02	0.36	0.63	1.03	1.64	3.66	7.41	116.4	1.12
Piedmont Station	100	99	96	89	46		1.25	1.41	0.77	1.86	1.41	0.23	0.48	0.79	1.55	2.62	3.70	7.54	109.2	1.37
R Triangle Inst	100	94	101	83	40		1.02	.95	0.87	1.24	.85	0.03	0.43	0.60	0.98	1.55	2.83	3.79	139.4	1.43
R Triangle Park	100	100	90	92	42		1.08	1.07	0.59	1.28	.84	0.32	0.47	0.75	1.08	1.50	2.69	3.84	149.7	1.62
UAPSP																				
Raleigh	100	97	94	93	86		.96	1.05	0.80	1.45	1.46	0.15	0.35	0.61	1.05	1.73	2.94	10.98	114.7	1.10
North Dakota																				
NADP																				
Teddy Roosevelt NP	100	83	88	76	36		.75	.98	0.61	1.19	.89	0.35	0.44	0.63	0.96	1.49	2.13	5.06	54.2	.41
Ohio																				
NADP																				
Caldwell	100	90	99	91	43		1.69	2.06	0.65	2.53	1.76	0.69	0.79	1.32	1.87	3.23	5.33	9.16	96.2	1.62
Delaware	100	98	102	92	47		1.75	2.40	0.83	3.58	4.35	0.64	0.90	1.21	2.14	4.06	7.56	25.32	81.5	1.43
Wooster	100	88	98	83	43		1.82	2.24	0.75	3.04	2.92	0.54	0.88	1.47	2.23	3.18	6.28	13.48	87.7	1.60
MAP3s/PCN																				
Oxford	100	98	109	95	72		1.43	1.67	0.73	2.15	1.56	0.37	0.63	0.96	1.61	3.08	4.59	6.82	99.0	1.42
UAPSP																				
Zanesville	100	100	99	100	100		1.62	1.82	0.82	2.48	2.10	0.14	0.62	1.02	1.81	3.15	5.23	13.70	90.0	1.46
Pennsylvania																				
NADP																				
Leading Ridge	100	100	90	98	50		2.16	2.40	0.62	3.00	2.52	0.91	1.16	1.55	2.20	3.29	5.16	12.54	104.1	2.25
MAP3s/PCN																				
Penn State	99	98	116	95	80		2.17	2.61	0.66	3.17	1.98	0.43	1.06	1.67	2.82	4.14	5.63	10.54	85.1	1.85
UAPSP																				
Scranton	100	97	96	96	104		1.67	1.90	0.83	2.60	2.08	0.22	0.65	1.10	1.72	3.72	6.02	9.21	75.1	1.25
South Dakota																				
UAPSP																				
Brookings	100	91	105	98	57		1.05	1.06	0.90	1.47	1.19	0.03	0.36	0.72	1.09	2.06	2.79	5.26	61.9	.65
Brookings-2	100	90	102	98	53		1.04	1.02	0.81	1.33	1.00	0.05	0.38	0.67	1.04	1.76	2.48	4.97	61.2	.64
Tennessee																				
NADP																				
Elkmont	98	82	101	81	43		.73	.78	0.87	1.09	.97	0.10	0.22	0.44	0.80	1.53	2.16	5.03	153.5	1.13
Walker Branch	100	94	96	92	48	1	.97	.99	1.03	1.43	1.46	0.02	0.43	0.68	1.14	1.85	2.43	9.96	145.3	1.41
MAP3s/PCN																				
Oak Ridge	100	100	100	99	62		1.27	1.19	0.74	1.50	1.06	0.11	0.50	0.74	1.24	2.00	2.73	5.89	148.1	1.88
UAPSP																				
Alamo	100	99	87	100	49		.79	1.12	0.86	1.58	1.63	0.17	0.28	0.63	1.24	1.99	2.71	10.83	120.7	.95

Nitrate

State			%					Concentration												
Network	%	%	Col	%		N	Wtd Mean	Geometric Mean		Arithmetic Mean	SD	Percentiles mg/l							Total Precip	NO3 Dep
Site Name	PCL	TP	Eff	VSL	N	BDL	mg/l	mg/l	SD	mg/l	mg/l	Min	10%	25%	50%	75%	90%	Max	cm	g/m2
Texas																				
NADP																				
Forest Seed Ctr	100	82	97	79	36		.77	1.05	0.84	1.48	1.36	0.19	0.31	0.68	0.96	1.77	3.63	5.75	127.4	.98
K-Bar	98	85	91	79	23		.76	.80	0.76	1.10	1.26	0.18	0.25	0.64	0.76	1.25	1.64	6.51	37.5	.29
Victoria	100	99	100	85	33		.64	1.11	1.07	1.99	2.87	0.08	0.30	0.56	1.09	2.17	5.02	15.37	84.0	.54
UAPSP																				
Marshall	100	86	101	98	76		.82	1.07	0.86	1.59	1.85	0.20	0.37	0.56	1.08	1.86	3.41	11.53	103.0	.85
Vermont																				
NADP																				
Bennington	100	81	98	83	43		1.36	1.48	0.85	2.05	1.70	0.20	0.48	0.89	1.56	2.49	5.03	7.24	87.0	1.18
UAPSP																				
Underhill Center	100	99	93	93	194		1.30	1.32	1.03	2.09	2.01	0.09	0.30	0.67	1.50	2.70	4.76	12.26	159.7	2.07
Virginia																				
MAP3s/PCN																				
Virginia	98	100	100	97	53		1.83	1.78	0.69	2.26	1.77	0.51	0.74	1.09	1.55	2.82	5.06	8.68	89.7	1.64
Washington																				
NADP																				
Olympic Nat. Park	100	81	98	89	45	5	.07	.10	1.20	.22	.37	0.02	0.03	0.06	0.09	0.19	0.56	1.75	366.5	.26
West Virginia																				
NADP																				
Parsons	100	100	92	96	50		1.30	1.40	0.66	1.69	1.00	0.27	0.58	0.99	1.54	2.32	3.12	5.47	151.6	1.96
Wisconsin																				
NADP																				
Trout Lake	100	76	92	76	40		1.24	1.26	0.73	1.70	2.05	0.13	0.54	0.91	1.20	1.74	2.66	13.05	104.3	1.29
Wyoming																				
NADP																				
Newcastle	100	95	89	87	42		.86	.91	0.55	1.07	.71	0.34	0.43	0.66	0.85	1.17	1.99	3.89	46.6	.40
British Columbia																				
CANSAP																				
Kelowna	100	100	81	100	12	4	.38	.09	2.33	.43	.50	0.01	0.01	0.01	0.15	1.07	1.16	1.16	50.3	.19
Port Hardy	100	100	80	100	12	3	.15	.09	1.80	.29	.52	0.01	0.01	0.03	0.13	0.28	1.47	1.90	174.9	.27
Revelstoke	100	100	88	100	12	2	.39	.19	1.64	.35	.21	0.01	0.01	0.17	0.36	0.56	0.61	0.62	112.9	.44
Manitoba																				
CANSAP																				
Bissett	100	100	82	100	12	3	.44	.15	2.15	.44	.35	0.01	0.01	0.02	0.54	0.70	0.95	1.03	59.2	.26
Dauphin	92	100	92	92	11		2.58	2.54	1.18	4.21	3.96	0.27	0.34	1.07	2.98	6.78	11.79	12.19	50.7	1.31
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	90	100	12		.61	.60	0.58	.68	.32	0.18	0.20	0.45	0.67	1.02	1.16	1.20	126.6	.77
Charlo	92	100	75	92	11	1	.65	.50	1.56	.85	.71	0.01	0.06	0.45	0.72	0.92	2.38	2.55	89.0	.58
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	97	100	12		.65	.54	0.90	.69	.37	0.05	0.11	0.41	0.69	0.94	1.28	1.42	127.8	.83
Shelburne	100	100	87	100	12		.74	.70	0.45	.77	.39	0.31	0.37	0.52	0.67	0.85	1.60	1.78	129.4	.96
Truro	99	100	83	99	12	1	.77	.50	1.57	.85	.58	0.01	0.04	0.53	0.74	1.17	1.90	2.00	101.8	.78
APN																				
Kejimkujik	100	97	103	88	120	17	.63	.43	1.68	1.12	1.48	0.01	0.10	0.14	0.51	1.43	3.44	7.67	126.2	.79
Ontario																				
CANSAP																				
Atikokan	100	100	80	100	12		1.02	1.09	0.52	1.22	.55	0.40	0.46	0.70	1.13	1.80	1.96	2.00	82.2	.84
Dorset	100	100	89	100	12		2.05	2.06	0.37	2.18	.77	0.98	1.10	1.64	2.06	2.75	3.48	3.50	113.6	2.33
Kingston	100	100	81	100	12		4.03	4.01	0.39	4.31	1.76	2.53	2.53	2.66	3.88	5.51	7.50	7.76	101.6	4.09

1982 Annual Summary

Nitrate

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	SD	Arithmetic Mean mg/l	SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NO3 Dep g/m2
Peterborough	100	100	84	100	12		2.50	2.41	0.43	2.64	1.31	1.51	1.51	1.52	2.40	3.17	5.28	6.16	88.8	2.22
Pickle Lake	99	100	79	99	12		.73	.55	1.04	.76	.49	0.03	0.09	0.41	0.78	0.99	1.68	1.86	72.8	.54
Simcoe	96	100	79	96	12		3.09	3.29	0.42	3.58	1.63	1.83	1.85	2.38	3.10	4.68	6.74	7.53	100.9	3.12
APIOS-D																				
Dorset	100	76	91	76	107		1.72	1.62	0.86	2.29	2.07	0.18	0.48	0.89	1.73	2.79	5.01	11.82	113.0	1.95
Forbes Twsp.	100	94	95	90	93		.97	.79	0.92	1.17	1.06	0.13	0.19	0.40	0.84	1.59	2.89	4.96	81.7	.79
Melborne	100	75	97	90	63		1.94	2.00	0.81	2.70	2.20	0.09	0.88	1.15	1.90	3.50	6.21	9.65	89.3	1.73
Quetico Centre	100	93	96	97	92		.86	.84	0.86	1.19	1.07	0.09	0.28	0.49	0.86	1.68	2.41	5.93	73.4	.63
Whitman Creek	100	88	81	95	75		2.25	2.18	0.97	3.17	2.63	0.09	0.69	1.33	2.30	4.69	7.17	12.62	58.5	1.32
APN																				
Chalk River	100	93	96	93	104	1	1.92	1.70	1.01	2.42	1.84	0.01	0.51	0.95	1.97	3.46	5.41	8.46	82.6	1.58
ELA	100	91	93	90	75	3	1.07	.77	1.37	1.29	1.08	0.01	0.14	0.45	1.08	1.65	2.76	5.10	69.0	.74
Long Point	100	96	84	96	59		3.43	3.67	0.82	5.15	6.43	0.13	1.51	2.31	3.55	5.89	9.48	48.29	83.0	2.85
APIOS-C																				
Alvinston	100	94	77	85	11		2.38	2.49	0.46	2.79	1.69	1.37	1.42	1.90	2.35	2.79	6.74	7.53	84.9	2.02
Bear Island	100	96	120	92	12		1.59	1.62	0.62	1.85	.85	0.31	0.54	1.42	1.84	2.35	3.36	3.72	64.9	1.04
Coldwater	100	100	76	100	13		2.01	1.96	0.43	2.13	.88	0.97	1.12	1.33	1.90	2.99	3.45	3.50	92.3	1.85
Dorset	100	100	87	100	13		2.05	2.10	0.35	2.22	.74	1.15	1.22	1.57	1.99	2.90	3.28	3.28	103.2	2.12
McKellar	100	98	76	92	12		2.30	2.37	0.42	2.58	1.16	1.42	1.44	1.54	2.32	3.47	4.77	5.23	93.4	2.15
Nakina	100	100	78	100	13		.86	.93	0.49	1.03	.45	0.31	0.38	0.73	1.06	1.31	1.81	1.86	63.5	.55
Ramsey	100	100	103	100	13		1.32	1.36	0.72	1.64	.96	0.18	0.51	1.15	1.37	1.95	3.51	4.25	68.6	.90
Quebec																				
APN																				
Montmorency	100	93	90	80	126	6	1.15	.71	1.48	1.40	1.53	0.01	0.14	0.36	0.90	1.94	3.19	8.24	123.6	1.43
Saskatchewan																				
CANSAP																				
Cree Lake	100	100	77	100	12	4	.27	.07	1.99	.20	.19	0.01	0.01	0.01	0.18	0.38	0.49	0.51	53.3	.15

Ammonium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NH4 Dep g/m2
Alabama																				
UAPSP																				
Selma	100	100	93	99	154	1	.18	.17	0.90	.25	.26	0.01	0.05	0.09	0.18	0.31	0.57	1.46	235.8	.43
Selma-2	100	100	93	99	101	4	.20	.16	1.01	.26	.40	0.01	0.05	0.10	0.16	0.31	0.49	3.61	141.6	.28
Arizona																				
NADP																				
Oliver Knoll	100	79	93	83	28	3	.20	.17	1.23	.31	.36	0.02	0.04	0.09	0.18	0.43	0.79	1.71	35.5	.07
Organ Pipe Mon.	98	75	100	79	21	2	.19	.20	1.02	.43	.99	0.04	0.06	0.13	0.21	0.35	0.52	4.70	26.6	.05
Arkansas																				
NADP																				
Fayetteville	100	98	95	84	37	1	.23	.29	0.77	.39	.33	0.08	0.10	0.19	0.31	0.42	0.84	1.66	142.3	.33
California																				
NADP																				
Davis	100	96	99	87	19		.44	.47	0.49	.53	.25	0.17	0.21	0.31	0.48	0.68	0.90	1.14	83.0	.37
Hopland (Ukiah)	100	98	98	89	27	6	.06	.07	1.31	.14	.18	0.02	0.02	0.03	0.08	0.22	0.40	0.68	118.3	.07
Sequoia Nat. Park	100	86	92	83	30	10	.07	.09	1.84	.37	.57	0.02	0.02	0.02	0.09	0.72	1.29	2.18	203.1	.15
Tanbark Flat	97	81	94	86	29	2	.25	.42	1.66	1.15	1.57	0.02	0.07	0.14	0.57	1.38	3.58	6.76	95.6	.24
Colorado																				
NADP																				
Manitou	100	83	89	81	33	5	.17	.13	1.17	.21	.19	0.02	0.02	0.06	0.16	0.31	0.54	0.67	45.6	.08
Mesa Verde	100	92	92	83	36	5	.13	.09	0.98	.14	.11	0.02	0.03	0.06	0.12	0.21	0.28	0.49	64.9	.09
Pawnee	100	98	97	83	31	1	.37	.39	1.09	.60	.50	0.02	0.13	0.16	0.50	0.80	1.47	1.94	41.4	.15
Rocky Mt. Nat Park	100	94	95	79	40	9	.14	.09	1.26	.16	.17	0.02	0.02	0.06	0.13	0.23	0.32	1.02	36.8	.05
Sand Spring	100	97	89	94	44	6	.16	.11	1.10	.19	.20	0.02	0.04	0.07	0.12	0.23	0.52	0.87	37.2	.06
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	96	62	4	.18	.15	1.31	.27	.25	0.01	0.03	0.08	0.16	0.49	0.68	0.99	98.0	.18
Florida																				
NADP																				
Bradford Forest	100	95	86	89	41	12	.10	.06	1.22	.10	.09	0.02	0.02	0.02	0.07	0.17	0.22	0.36	150.4	.15
Everglades Nat. Pa	98	76	99	79	40	18	.08	.04	1.36	.09	.13	0.02	0.02	0.02	0.05	0.13	0.32	0.57	161.4	.12
Georgia																				
NADP																				
Georgia Station	100	99	98	91	44	5	.16	.11	1.11	.18	.19	0.02	0.02	0.08	0.13	0.22	0.41	1.04	137.4	.22
UAPSP																				
Uvalda	100	99	96	99	76	4	.13	.11	0.98	.17	.16	0.01	0.04	0.06	0.12	0.23	0.40	0.95	107.5	.14
Hawaii																				
NADP																				
Mauna Loa	100	97	95	92	36	24	.03	.02	1.31	.08	.17	0.02	0.02	0.02	0.02	0.04	0.39	0.69	117.6	.03
Illinois																				
NADP																				
Argonne	98	77	95	75	37	2	.39	.33	0.99	.49	.44	0.03	0.09	0.22	0.35	0.65	1.15	2.01	106.8	.41
Bondville	100	95	96	83	42	3	.32	.31	1.04	.47	.42	0.02	0.08	0.19	0.36	0.56	1.16	1.73	88.8	.28
Dixon Springs	100	100	90	92	46		.28	.34	0.87	.48	.54	0.03	0.12	0.19	0.38	0.52	1.03	3.52	152.7	.42
NIARC	100	99	94	81	41	1	.45	.48	1.12	.85	1.10	0.02	0.16	0.28	0.47	0.85	2.05	5.20	95.4	.43
Salem	98	100	102	90	44		.26	.28	0.86	.40	.33	0.03	0.07	0.18	0.29	0.59	0.79	1.63	107.4	.28
Southern Ill U	100	100	99	92	46		.21	.26	0.74	.34	.26	0.04	0.09	0.18	0.26	0.43	0.63	1.32	130.2	.27
MAP3s/PCN																				
Illinois	100	98	99	94	77		.35	.37	0.90	.55	.57	0.03	0.12	0.22	0.38	0.59	1.31	3.78	90.5	.31

Ammonium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NH4 Dep g/m2
Indiana																				
NADP																				
Indiana Dunes	98	100	83	87	44		.39	.36	0.80	.50	.50	0.06	0.12	0.24	0.38	0.48	1.05	2.39	108.6	.42
UAPSP																				
Roanoke	100	97	95	96	94	1	.41	.37	0.93	.54	.54	0.02	0.10	0.22	0.40	0.67	1.13	3.30	108.7	.45
Rockport	100	94	94	98	106	2	.32	.29	1.01	.46	.50	0.01	0.07	0.18	0.31	0.55	1.12	2.91	115.2	.37
Kansas																				
UAPSP																				
Lancaster	100	99	90	96	93	1	.40	.40	0.87	.55	.43	0.01	0.13	0.26	0.45	0.78	1.17	2.84	114.5	.46
Kentucky																				
UAPSP																				
Morehead	100	100	98	97	122	5	.24	.20	1.09	.33	.38	0.01	0.05	0.11	0.23	0.46	0.69	3.25	124.0	.30
Maine																				
NADP																				
Caribou	100	92	90	87	43	7	.11	.10	1.21	.17	.17	0.02	0.02	0.07	0.12	0.23	0.37	0.75	94.6	.10
Greenville Station	100	91	86	92	48	11	.12	.08	1.38	.17	.21	0.02	0.02	0.03	0.08	0.25	0.40	1.16	85.6	.10
UAPSP																				
Winterport	100	96	98	95	95	11	.15	.12	1.38	.27	.43	0.01	0.02	0.04	0.11	0.32	0.75	3.46	81.8	.12
Massachusetts																				
NADP																				
East	91	93	91	84	40	7	.14	.09	1.30	.17	.16	0.02	0.02	0.04	0.12	0.29	0.46	0.59	96.1	.13
UAPSP																				
Turners Falls	100	100	92	99	82	2	.21	.21	1.13	.34	.31	0.02	0.05	0.09	0.25	0.54	0.80	1.55	101.8	.21
Michigan																				
NADP																				
Kellogg	98	82	92	75	37	1	.38	.33	0.71	.41	.25	0.07	0.14	0.24	0.38	0.55	0.78	1.24	85.2	.33
UAPSP																				
Gaylord	100	97	93	98	107	2	.33	.22	1.14	.39	.43	0.01	0.04	0.10	0.25	0.46	0.92	2.58	68.6	.23
Minnesota																				
NADP																				
Fernberg	100	88	90	83	43	4	.27	.20	1.39	.41	.48	0.02	0.03	0.09	0.27	0.50	1.16	2.07	79.0	.21
Lamberton	100	94	91	82	34	1	.52	.54	0.95	.72	.55	0.02	0.23	0.31	0.60	0.87	1.52	2.78	77.4	.40
Marcell	100	97	93	88	47	2	.32	.28	1.16	.47	.54	0.02	0.06	0.20	0.32	0.74	0.97	3.35	81.7	.26
Mississippi																				
NADP																				
Meridian	100	86	86	75	38	3	.19	.15	1.06	.23	.19	0.02	0.05	0.09	0.17	0.31	0.50	0.79	165.1	.31
UAPSP																				
Clinton	100	100	100	99	107	4	.18	.17	1.03	.26	.28	0.01	0.04	0.09	0.17	0.33	0.54	1.55	158.9	.28
Missouri																				
NADP																				
Ashland	100	99	97	90	43	1	.27	.28	0.86	.38	.30	0.02	0.12	0.16	0.28	0.49	0.90	1.34	125.2	.33
University Forest	100	90	95	81	43	1	.23	.26	1.12	.54	1.10	0.02	0.07	0.14	0.24	0.44	1.32	6.79	135.8	.31
Montana																				
NADP																				
Glacier Nat Park	100	89	86	91	48	6	.08	.07	0.96	.10	.09	0.02	0.02	0.05	0.07	0.14	0.23	0.54	91.9	.07
Nebraska																				
NADP																				
Mead	100	94	100	81	34		.52	.75	0.77	1.02	.94	0.13	0.33	0.45	0.62	1.20	2.91	4.15	95.6	.50
New Hampshire																				
NADP																				
Hubbard Brook	100	90	91	83	42	4	.18	.13	1.17	.22	.26	0.02	0.02	0.09	0.15	0.29	0.43	1.44	101.6	.18

Ammonium

					Concentration															
							Wtd	Geometric		Arithmetic		Percentiles mg/l								
State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Mean mg/l	Mean mg/l	SD	Mean mg/l	SD mg/l	Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NH4 Dep g/m2
New York																				
NADP																				
Aurora	100	98	88	92	46	2	.35	.33	1.12	.52	.48	0.02	0.09	0.18	0.37	0.64	1.14	2.11	74.4	.26
Chautauqua	100	98	88	89	46	1	.32	.33	0.93	.51	.62	0.05	0.10	0.19	0.34	0.59	1.10	3.91	95.6	.31
Jasper	96	75	97	75	36		.25	.25	0.90	.36	.30	0.03	0.08	0.13	0.25	0.52	0.89	1.03	75.9	.19
Knobit	98	93	100	88	44	7	.20	.14	1.51	.40	.94	0.02	0.02	0.06	0.18	0.36	0.66	6.07	78.1	.15
Stilwell Lake	100	93	94	89	46	4	.17	.16	1.30	.30	.32	0.02	0.03	0.07	0.21	0.47	0.60	1.71	115.7	.20
MAP3s/PCN																				
Brookhaven	100	100	99	98	62	1	.13	.13	1.38	.29	.37	0.01	0.02	0.04	0.12	0.40	0.75	1.69	107.4	.14
Ithaca	100	99	97	99	80	2	.27	.26	1.16	.43	.40	0.01	0.06	0.14	0.31	0.56	0.99	1.98	93.4	.25
Whiteface	99	97	115	95	87	5	.20	.14	1.40	.28	.32	0.01	0.01	0.07	0.18	0.40	0.71	2.16	82.2	.16
North Carolina																				
NADP																				
Coweeta	100	86	97	87	46	2	.12	.11	0.91	.16	.14	0.02	0.04	0.07	0.12	0.21	0.40	0.73	182.5	.22
Finley (A)	100	78	94	77	39	1	.22	.23	1.00	.33	.26	0.02	0.07	0.11	0.23	0.55	0.81	1.04	117.7	.26
Lewiston	100	100	103	94	45	2	.19	.16	0.96	.24	.22	0.02	0.07	0.09	0.16	0.33	0.64	1.01	116.4	.22
Piedmont Station	100	99	96	89	46	2	.32	.31	1.13	.51	.61	0.02	0.08	0.19	0.37	0.60	0.98	3.83	109.2	.35
R Triangle Inst	100	94	101	83	40	5	.32	.16	1.48	.44	.90	0.02	0.02	0.07	0.17	0.35	0.99	5.05	139.4	.45
R Triangle Park	100	100	90	92	42		.18	.15	0.79	.20	.19	0.03	0.05	0.09	0.13	0.24	0.56	0.82	149.7	.27
UAPSP																				
Raleigh	100	97	94	93	87	1	.24	.23	0.87	.33	.33	0.00	0.07	0.15	0.24	0.38	0.64	2.51	114.7	.27
North Dakota																				
NADP																				
Teddy Roosevelt NP	100	83	88	76	36	5	.17	.13	1.16	.20	.17	0.02	0.02	0.09	0.16	0.30	0.41	0.79	54.2	.09
Ohio																				
NADP																				
Caldwell	100	90	99	91	43		.24	.28	0.71	.36	.30	0.06	0.11	0.18	0.27	0.44	0.91	1.24	96.2	.23
Delaware	100	98	102	92	47	1	.32	.37	1.14	.74	1.23	0.02	0.11	0.20	0.32	0.65	1.52	6.62	81.5	.26
Wooster	100	88	98	83	43		.41	.43	0.79	.62	.70	0.12	0.18	0.25	0.38	0.72	1.41	3.83	87.7	.36
MAP3s/PCN																				
Oxford	100	98	109	95	72	3	.28	.24	1.17	.38	.33	0.01	0.07	0.14	0.31	0.50	0.72	1.67	99.0	.28
UAPSP																				
Zanesville	100	100	99	99	98	1	.28	.27	0.97	.41	.40	0.02	0.07	0.15	0.31	0.53	0.85	2.06	90.0	.25
Pennsylvania																				
NADP																				
Leading Ridge	100	100	90	98	50		.34	.31	0.90	.48	.56	0.04	0.09	0.19	0.30	0.44	1.37	2.73	104.1	.36
MAP3s/PCN																				
Penn State	99	98	116	95	80		.34	.32	1.00	.48	.41	0.03	0.09	0.17	0.39	0.74	1.12	1.98	85.1	.29
UAPSP																				
Scranton	100	96	96	95	100	2	.30	.23	1.28	.47	.63	0.01	0.04	0.10	0.21	0.70	1.04	4.12	75.1	.22
South Dakota																				
UAPSP																				
Brookings	100	91	105	98	57		.68	.67	0.84	.93	.84	0.09	0.20	0.44	0.67	1.25	2.18	4.33	61.9	.42
Brookings-2	100	89	103	98	52		.67	.66	0.79	.87	.66	0.09	0.20	0.43	0.68	1.30	1.58	2.91	61.2	.41
Tennessee																				
NADP																				
Elkmont	98	82	101	81	43	5	.15	.12	1.19	.21	.20	0.02	0.02	0.06	0.16	0.28	0.52	0.88	153.5	.23
Walker Branch	100	94	96	92	48	4	.15	.13	1.11	.20	.18	0.02	0.02	0.08	0.16	0.27	0.48	0.94	145.3	.23
MAP3s/PCN																				
Oak Ridge	100	100	100	99	62	1	.19	.15	1.15	.25	.22	0.01	0.03	0.06	0.19	0.38	0.52	1.01	148.1	.28
UAPSP																				
Alamo	100	99	87	100	49		.33	.31	1.13	.85	2.43	0.04	0.06	0.17	0.32	0.50	0.87	15.89	120.7	.40

Ammonium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration												Total Precip cm	NH4 Dep g/m2
							Wtd	Geometric		Arithmetic		Percentiles mg/l								
							Mean mg/l	Mean mg/l	SD	Mean mg/l	SD mg/l	Min	10%	25%	50%	75%	90%	Max		
Texas																				
NADP																				
Forest Seed Ctr	100	82	97	79	36	3	.19	.14	1.02	.21	.18	0.02	0.04	0.08	0.14	0.28	0.44	0.76	127.4	.25
K-Bar	98	85	91	79	23	2	.30	.19	1.02	.27	.19	0.02	0.04	0.15	0.28	0.38	0.49	0.85	37.5	.11
Victoria	100	99	100	85	33	2	.19	.24	1.30	.54	1.02	0.02	0.07	0.11	0.23	0.59	1.04	5.78	84.0	.16
UAPSP																				
Marshall	100	86	101	98	76	3	.23	.20	1.14	.35	.42	0.02	0.04	0.10	0.24	0.43	0.65	2.48	103.0	.24
Vermont																				
NADP																				
Bennington	100	81	98	83	43	7	.23	.14	1.49	.32	.42	0.02	0.02	0.07	0.21	0.41	0.70	1.97	87.0	.20
UAPSP																				
Underhill Center	100	98	94	92	190	15	.24	.19	1.32	.37	.45	0.01	0.03	0.09	0.20	0.51	0.86	2.51	159.7	.38
Virginia																				
MAP3s/PCN																				
Virginia	98	100	100	97	53	2	.29	.20	1.26	.34	.30	0.01	0.04	0.08	0.25	0.57	0.79	1.12	89.7	.26
Washington																				
NADP																				
Olympic Nat. Park	100	81	98	89	45	36	.02	.02	0.81	.02	.03	0.02	0.02	0.02	0.02	0.04	0.07	0.19	366.5	.06
West Virginia																				
NADP																				
Parsons	100	100	92	96	50	1	.20	.18	0.90	.26	.27	0.02	0.05	0.11	0.21	0.28	0.50	1.69	151.6	.30
Wisconsin																				
NADP																				
Trout Lake	100	76	92	76	40	3	.39	.24	1.30	.47	.73	0.02	0.04	0.11	0.33	0.50	0.72	3.66	104.3	.40
Wyoming																				
NADP																				
Newcastle	100	95	89	87	42	8	.20	.13	1.34	.24	.24	0.02	0.02	0.07	0.19	0.33	0.61	1.04	46.6	.09
British Columbia																				
CANSAP																				
Kelowna	100	100	81	100	12	7	.04	.01	1.95	.06	.10	0.01	0.01	0.01	0.01	0.15	0.25	0.25	50.3	.02
Port Hardy	100	100	80	100	12	6	.04	.01	1.75	.09	.27	0.00	0.01	0.01	0.01	0.03	0.68	0.96	174.9	.07
Revelstoke	100	100	88	100	12	4	.05	.02	1.77	.07	.07	0.01	0.01	0.01	0.06	0.11	0.19	0.21	112.9	.06
Manitoba																				
CANSAP																				
Bissett	100	100	82	100	12	5	.06	.02	1.78	.06	.08	0.01	0.01	0.01	0.02	0.10	0.21	0.25	59.2	.03
Dauphin	92	100	92	92	11	2	.09	.03	1.55	.07	.07	0.01	0.01	0.01	0.05	0.13	0.19	0.21	50.7	.05
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	90	100	12	3	.06	.03	2.00	.08	.08	0.00	0.00	0.01	0.07	0.11	0.25	0.28	126.6	.07
Charlo	92	100	75	92	11	2	.27	.14	2.06	.37	.41	0.01	0.01	0.06	0.26	0.38	1.16	1.16	89.0	.24
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	97	100	12	3	.04	.03	1.44	.05	.05	0.01	0.01	0.01	0.05	0.07	0.16	0.18	127.8	.05
Shelburne	100	100	87	100	12	3	.05	.03	1.72	.06	.07	0.00	0.00	0.01	0.04	0.10	0.19	0.20	129.4	.07
Truro	99	100	83	99	12	2	.16	.08	1.71	.18	.18	0.01	0.01	0.05	0.12	0.22	0.57	0.63	101.8	.16
APN																				
Kejimkujik	100	97	103	88	120	28	.08	.05	1.63	.14	.20	0.00	0.01	0.03	0.06	0.16	0.34	1.07	126.2	.11
Ontario																				
CANSAP																				
Atikokan	100	100	80	100	12		.32	.29	0.73	.36	.22	0.08	0.09	0.16	0.34	0.51	0.74	0.78	82.2	.26
Dorset	100	100	89	100	12		.32	.28	0.75	.34	.21	0.06	0.07	0.16	0.31	0.55	0.68	0.72	113.6	.37
Kingston	100	100	81	100	12	3	.20	.05	2.18	.18	.21	0.00	0.00	0.01	0.06	0.44	0.48	0.48	101.6	.20

Ammonium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Concentration Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NH4 Dep g/m2
Peterborough	100	100	84	100	12		.43	.30	1.27	.46	.34	0.01	0.05	0.22	0.40	0.70	1.12	1.28	88.8	.39
Pickle Lake	99	100	79	99	12	2	.16	.04	1.96	.13	.19	0.00	0.00	0.01	0.07	0.17	0.54	0.63	72.8	.11
Simcoe	96	100	79	96	12		.34	.23	1.68	.43	.36	0.00	0.04	0.15	0.35	0.65	1.10	1.27	100.9	.34
APIOS-D																				
Forbes Twsp.	100	93	95	87	82	4	.40	.18	1.56	.40	.45	0.00	0.03	0.09	0.25	0.61	0.96	2.64	81.7	.33
Quetico Centre	100	92	96	94	82	2	.32	.21	1.38	.41	.57	0.00	0.03	0.12	0.28	0.48	0.87	4.56	73.4	.24
Whitman Creek	100	88	81	93	70		.47	.36	0.88	.50	.39	0.04	0.10	0.20	0.42	0.73	0.95	1.83	58.5	.28
APN																				
Chalk River	100	93	96	93	104	3	.39	.29	1.24	.46	.36	0.01	0.06	0.17	0.37	0.70	1.00	1.79	82.6	.33
ELA	100	91	93	90	75	9	.38	.14	1.96	.40	.44	0.00	0.01	0.05	0.26	0.59	0.94	2.09	69.0	.26
Long Point	100	96	84	96	59		.75	.53	1.16	1.01	1.53	0.01	0.18	0.29	0.46	1.09	2.02	8.88	83.0	.62
APIOS-C																				
Alvinston	100	97	78	92	12		.56	.58	0.69	.73	.56	0.20	0.21	0.36	0.62	0.76	1.94	2.15	84.9	.48
Bear Island	100	96	120	92	12		.30	.26	0.96	.37	.32	0.03	0.05	0.17	0.30	0.47	1.02	1.23	64.9	.20
Coldwater	100	100	76	100	13		.46	.40	0.70	.49	.28	0.11	0.13	0.22	0.50	0.72	0.92	0.94	92.3	.43
Dorset	100	100	87	100	13		.40	.36	0.72	.45	.30	0.08	0.12	0.21	0.44	0.67	1.00	1.14	103.2	.42
McKellar	100	95	77	85	11		.46	.40	0.63	.46	.23	0.11	0.12	0.28	0.43	0.67	0.82	0.85	93.4	.43
Nakina	100	84	80	85	11		.32	.20	1.29	.29	.17	0.01	0.02	0.21	0.30	0.34	0.61	0.68	63.5	.20
Ramsey	100	98	103	92	12		.26	.24	0.84	.33	.32	0.06	0.07	0.12	0.26	0.40	1.04	1.26	68.6	.18
Quebec																				
APN																				
Montmorency	100	93	90	80	126	25	.23	.06	2.02	.75	6.33	0.00	0.01	0.01	0.10	0.28	0.54	71.16	123.6	.29
Saskatchewan																				
CANSAP																				
Cree Lake	100	100	77	100	12	2	.05	.02	1.67	.06	.09	0.00	0.00	0.01	0.01	0.10	0.26	0.32	53.3	.03

1982 Annual Summary

Calcium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CA Dep g/m2
Alabama																				
UAPSP																				
Selma	100	100	93	97	147	27	.09	.07	1.21	.14	.17	-0.02	0.02	0.03	0.08	0.17	0.31	1.39	235.8	.22
Selma-2	100	93	93	98	95	18	.08	.07	1.19	.13	.19	-0.02	0.01	0.03	0.08	0.16	0.30	1.56	141.6	.12
Arizona																				
NADP																				
Oliver Knoll	100	79	93	83	28		.34	.37	1.20	.86	1,93	0.04	0.06	0.17	0.37	0.71	1.42	10.35	35.5	.12
Organ Pipe Mon.	98	75	100	79	21		.29	.34	1.32	.68	.77	0.04	0.04	0.10	0.35	1.07	2.06	2.51	26.6	.08
Arkansas																				
NADP																				
Fayetteville	100	98	95	84	37		.15	.23	1.29	.76	2.66	0.01	0.06	0.08	0.25	0.51	1.02	16.40	142.3	.21
California																				
NADP																				
Davis	100	96	99	87	19		.05	.05	1.02	.10	.18	0.01	0.01	0.03	0.04	0.09	0.14	0.84	83.0	.04
Hopland (Ukiah)	100	98	98	89	27	1	.04	.05	1.19	.10	.13	0.01	0.01	0.02	0.06	0.12	0.32	0.52	118.3	.05
Sequoia Nat. Park	100	86	92	83	30	2	.03	.05	1.49	.13	.17	0.01	0.01	0.02	0.03	0.29	0.49	0.54	203.1	.06
Tanbark Flat	97	81	94	86	29	1	.09	.25	1.63	.77	1.38	0.01	0.04	0.07	0.28	0.96	1.93	6.92	95.6	.09
Colorado																				
NADP																				
Manitou	100	83	89	81	33		.21	.28	1.01	.52	1.00	0.04	0.07	0.16	0.28	0.49	0.93	5.82	45.6	.10
Mesa Verde	100	92	92	83	36		.33	.37	1.45	.99	1.70	0.02	0.05	0.15	0.32	1.08	2.55	7.52	64.9	.21
Pawnee	100	98	97	83	31		.20	.28	1.04	.44	.44	0.02	0.06	0.18	0.29	0.45	1.25	1.74	41.4	.08
Rocky Mt. Nat Park	100	94	95	79	40		.21	.22	0.95	.31	.24	0.03	0.05	0.11	0.26	0.43	0.76	0.89	36.8	.08
Sand Spring	100	97	89	94	44		.27	.29	1.13	.64	1.14	0.05	0.09	0.13	0.23	0.54	2.45	5.31	37.2	.10
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	96	62	4	.11	.09	0.93	.14	.16	0.02	0.03	0.06	0.09	0.16	0.30	1.08	98.0	.11
Florida																				
NADP																				
Bradford Forest	100	95	86	89	41		.12	.15	0.87	.23	.26	0.04	0.05	0.07	0.15	0.25	0.57	1.43	150.4	.18
Everglades Nat. Pa	98	76	99	79	40		.18	.22	0.84	.32	.37	0.04	0.08	0.13	0.19	0.43	0.65	2.16	161.4	.30
Georgia																				
NADP																				
Georgia Station	100	99	98	91	44		.11	.10	0.99	.17	.22	0.01	0.04	0.05	0.08	0.17	0.44	0.94	137.4	.15
UAPSP																				
Uvalda	100	92	96	98	73	21	.07	.04	1.26	.12	.34	-0.02	0.01	0.02	0.04	0.09	0.27	2.79	107.5	.07
Hawaii																				
NADP																				
Mauna Loa	100	97	95	92	36	5	.02	.03	1.14	.06	.09	0.01	0.01	0.02	0.03	0.06	0.13	0.45	117.6	.02
Illinois																				
NADP																				
Argonne	98	77	95	75	37		.24	.31	1.09	.51	.54	0.02	0.10	0.18	0.28	0.75	1.37	2.45	106.8	.25
Bondville	100	95	96	83	42	1	.17	.20	0.95	.30	.34	0.02	0.05	0.13	0.22	0.33	0.54	1.75	88.8	.15
Dixon Springs	100	100	90	92	46		.26	.37	1.26	.75	1.00	0.03	0.05	0.19	0.36	0.90	1.93	5.28	152.7	.40
NIARC	100	99	94	81	41		.31	.39	1.08	.65	.71	0.03	0.10	0.23	0.42	0.89	1.42	3.63	95.4	.29
Salem	98	100	102	90	44		.20	.23	1.10	.38	.41	0.01	0.05	0.10	0.28	0.48	0.82	1.90	107.4	.22
Southern Ill U	100	100	99	92	46		.17	.23	1.15	.40	.40	0.02	0.04	0.11	0.28	0.61	0.94	1.92	130.2	.21
MAP3s/PCN																				
Illinois	100	98	99	94	77	1	.23	.25	1.00	.39	.46	0.02	0.06	0.15	0.27	0.46	0.77	3.21	90.5	.21

1982 Annual Summary

Calcium

State / Network / Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration												Total Precip cm	CA Dep g/m2
								Geometric		Arithmetic		Percentiles mg/l								
							Wtd Mean mg/l	Mean mg/l	SD	Mean mg/l	SD mg/l	Min	10%	25%	50%	75%	90%	Max		
Indiana																				
NADP																				
Indiana Dunes	98	100	83	87	44		.32	.31	0.97	.47	.49	0.04	0.08	0.17	0.32	0.67	1.06	2.42	108.6	.35
UAPSP																				
Roanoke	100	96	95	95	88	5	.30	.20	1.40	.53	1.00	0.00	0.04	0.08	0.22	0.48	1.09	5.23	108.7	.33
Rockport	100	93	94	96	97	12	.19	.13	1.36	.27	.30	0.00	0.02	0.05	0.17	0.38	0.68	1.53	115.2	.22
Kansas																				
UAPSP																				
Lancaster	100	98	91	94	84	3	.33	.26	1.25	.55	1.09	0.02	0.06	0.11	0.27	0.55	1.04	9.23	114.5	.38
Kentucky																				
UAPSP																				
Morehead	100	99	98	94	112	9	.15	.12	1.23	.34	1.15	0.00	0.03	0.06	0.12	0.22	0.39	10.43	124.0	.18
Maine																				
NADP																				
Caribou	100	92	90	87	43		.08	.11	1.06	.19	.25	0.01	0.03	0.05	0.09	0.23	0.49	1.20	94.6	.08
Greenville Station	100	91	86	92	48	1	.08	.09	1.01	.14	.15	0.01	0.03	0.05	0.09	0.15	0.47	0.66	85.6	.07
UAPSP																				
Winterport	100	92	99	93	85	25	.04	.05	1.17	.08	.09	-0.01	0.01	0.02	0.05	0.12	0.22	0.37	81.8	.04
Massachusetts																				
NADP																				
East	91	93	91	84	40		.10	.14	1.10	.35	1.11	0.02	0.03	0.06	0.13	0.27	0.40	7.14	96.1	.09
UAPSP																				
Turners Falls	100	98	92	96	74	20	.05	.05	1.17	.09	.13	-0.03	0.00	0.02	0.05	0.11	0.20	0.79	101.8	.05
Michigan																				
NADP																				
Kellogg	98	82	92	75	37		.25	.25	0.75	.32	.23	0.06	0.09	0.13	0.31	0.50	0.59	1.13	85.2	.21
UAPSP																				
Gaylord	100	93	94	93	90	6	.17	.11	1.13	.19	.23	0.00	0.03	0.05	0.10	0.24	0.48	1.35	68.6	.12
Minnesota																				
NADP																				
Fernberg	100	88	90	83	43		.16	.18	0.94	.29	.33	0.03	0.04	0.11	0.20	0.32	0.51	1.56	79.0	.13
Lamberton	100	94	91	82	34		.37	.40	1.18	1.13	3.23	0.06	0.09	0.15	0.45	0.69	1.26	18.61	77.4	.29
Marcell	100	97	93	88	47		.21	.23	0.95	.35	.34	0.04	0.05	0.12	0.22	0.40	1.00	1.28	81.7	.17
Mississippi																				
NADP																				
Meridian	100	86	86	75	38		.12	.14	0.70	.17	.13	0.03	0.05	0.09	0.13	0.23	0.30	0.77	165.1	.20
UAPSP																				
Clinton	100	100	100	97	101	17	.08	.08	1.26	.16	.24	0.00	0.02	0.04	0.09	0.18	0.39	1.82	158.9	.13
Missouri																				
NADP																				
Ashland	100	99	97	90	43		.24	.28	1.00	.43	.42	0.03	0.07	0.14	0.31	0.70	1.08	1.74	125.2	.30
University Forest	100	90	95	81	43		.17	.24	1.38	.58	.99	0.01	0.04	0.09	0.27	0.71	1.59	5.60	135.8	.23
Montana																				
NADP																				
Glacier Nat Park	100	89	86	91	48		.09	.11	1.04	.19	.20	0.02	0.03	0.06	0.09	0.27	0.54	0.73	91.9	.08
Nebraska																				
NADP																				
Mead	100	94	100	81	34		.28	.43	1.04	.72	.76	0.08	0.12	0.21	0.35	1.15	1.99	3.06	95.6	.27
New Hampshire																				
NADP																				
Hubbard Brook	100	90	91	83	42		.08	.08	0.92	.13	.14	0.02	0.02	0.04	0.08	0.15	0.29	0.64	101.6	.08

Calcium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Concentration Geometric Mean mg/l	Concentration Geometric SD	Concentration Arithmetic Mean mg/l	Concentration Arithmetic SD mg/l	Percentiles mg/l Min	Percentiles mg/l 10%	Percentiles mg/l 25%	Percentiles mg/l 50%	Percentiles mg/l 75%	Percentiles mg/l 90%	Percentiles mg/l Max	Total Precip cm	CA Dep g/m2
New York																				
NADP																				
Aurora	100	98	80	92	46		.19	.22	1.28	.52	.82	0.02	0.05	0.09	0.10	0.50	2.02	3.74	74.4	.14
Chautauqua	100	98	88	89	46		.17	.22	1.10	.42	.61	0.03	0.06	0.09	0.20	0.42	0.89	3.20	95.6	.17
Jasper	96	75	97	75	36		.10	.14	1.23	.27	.28	0.01	0.03	0.06	0.11	0.50	0.76	0.92	75.9	.08
Knobit	98	93	100	88	44		.10	.12	1.22	.31	.71	0.01	0.03	0.05	0.11	0.22	0.48	3.56	78.1	.08
Stilwell Lake	100	93	94	89	46		.09	.13	1.21	.28	.41	0.02	0.03	0.05	0.13	0.30	0.91	2.10	115.7	.11
MAP3s/PCN																				
Brookhaven	100	100	99	98	62	5	.08	.09	1.09	.15	.21	0.02	0.02	0.04	0.09	0.16	0.38	1.20	107.4	.09
Ithaca	100	96	96	99	79	8	.11	.12	1.26	.23	.29	0.02	0.02	0.05	0.13	0.32	0.60	1.68	93.4	.10
Whiteface	99	97	115	94	86	12	.07	.06	1.10	.11	.17	0.02	0.02	0.03	0.07	0.15	0.23	1.44	82.2	.05
North Carolina																				
NADP																				
Coweeta	100	86	97	87	46		.07	.08	1.08	.14	.18	0.01	0.02	0.04	0.07	0.15	0.28	1.02	182.5	.12
Finley (A)	100	78	94	77	39		.08	.10	1.05	.18	.25	0.01	0.03	0.05	0.08	0.19	0.42	1.46	117.7	.10
Lewiston	100	100	103	94	45		.10	.13	1.07	.27	.53	0.01	0.04	0.07	0.11	0.25	0.61	3.00	116.4	.12
Piedmont Station	100	99	96	89	46		.14	.15	1.17	.29	.40	0.02	0.03	0.08	0.13	0.38	0.91	2.10	109.2	.15
R Triangle Inst	100	94	101	83	40		.10	.11	0.90	.17	.18	0.03	0.03	0.06	0.09	0.23	0.45	0.89	139.4	.14
R Triangle Park	100	100	90	92	42		.07	.07	0.86	.10	.10	0.01	0.02	0.04	0.07	0.12	0.24	0.54	149.7	.10
UAPSP																				
Raleigh	100	95	94	93	86	22	.07	.05	1.21	.10	.13	-0.01	0.01	0.03	0.05	0.13	0.26	0.77	114.7	.08
North Dakota																				
NADP																				
Teddy Roosevelt NP	100	83	88	76	36		.30	.30	0.91	.49	.69	0.06	0.09	0.17	0.27	0.50	0.96	3.52	54.2	.16
Ohio																				
NADP																				
Caldwell	100	90	99	91	43		.21	.24	1.03	.41	.55	0.03	0.07	0.10	0.24	0.53	0.74	3.01	96.2	.20
Delaware	100	98	102	92	47		.21	.29	1.25	.66	1.19	0.02	0.06	0.14	0.27	0.64	1.55	7.15	81.5	.17
Wooster	100	88	98	83	43		.20	.26	1.12	.53	.86	0.03	0.07	0.12	0.24	0.53	1.55	4.47	87.7	.18
MAP3s/PCN																				
Oxford	100	98	109	95	72	1	.14	.14	1.04	.22	.19	0.02	0.03	0.07	0.19	0.32	0.51	0.84	99.0	.14
UAPSP																				
Zanesville	100	99	99	98	93	6	.21	.18	1.22	.33	.35	-0.01	0.04	0.08	0.22	0.50	0.74	2.44	90.0	.19
Pennsylvania																				
NADP																				
Leading Ridge	100	100	90	98	50		.19	.22	1.09	.42	.64	0.04	0.06	0.09	0.19	0.45	1.43	3.44	104.1	.19
MAP3s/PCN																				
Penn State	99	98	116	95	80		.19	.21	1.02	.33	.32	0.02	0.05	0.08	0.22	0.47	0.92	1.48	85.1	.17
UAPSP																				
Scranton	100	94	97	92	88	22	.08	.07	1.36	.15	.20	-0.01	0.01	0.03	0.08	0.22	0.31	1.33	75.1	.06
South Dakota																				
UAPSP																				
Brookings	100	90	105	97	53	7	.29	.17	1.42	.37	.49	0.00	0.02	0.10	0.21	0.42	0.96	2.52	61.9	.18
Brookings-2	100	89	104	98	51	4	.29	.17	1.26	.33	.42	-0.02	0.03	0.10	0.19	0.41	0.76	2.09	61.2	.17
Tennessee																				
NADP																				
Elkmont	98	82	101	81	43		.08	.09	1.01	.15	.21	0.01	0.02	0.05	0.10	0.18	0.32	1.30	153.5	.12
Walker Branch	100	94	96	92	48		.13	.16	0.93	.26	.46	0.01	0.06	0.09	0.16	0.28	0.40	3.28	145.3	.19
MAP3s/PCN																				
Oak Ridge	100	100	100	99	62	3	.11	.11	0.89	.15	.14	0.02	0.04	0.07	0.11	0.21	0.29	0.88	148.1	.16
UAPSP																				
Alamo	100	99	88	99	47	8	.21	.12	1.59	1.38	8.10	0.00	0.01	0.06	0.16	0.31	0.58	55.74	120.7	.26

State			%									Concentration								
Network							Wtd	Geometric		Arithmetic		Percentiles							Total	CA
Site Name	% PCL	% TP	Col Eff	% VSL	N	N BDL	Mean mg/l	Mean mg/l	SD	Mean mg/l	SD mg/l	Min	10%	25%	mg/l 50%	75%	90%	Max	Precip cm	Dep g/m2
Texas																				
NADP																				
Forest Seed Ctr	100	82	97	79	36		.22	.22	1.24	.55	1.12	0.02	0.06	0.10	0.22	0.42	1.51	6.19	127.4	.20
K-Bar	98	85	91	79	23		.78	.62	1.33	1.53	3.28	0.03	0.12	0.29	0.58	1.59	2.39	16.20	37.5	.29
Victoria	100	99	100	85	33		.17	.33	1.19	.65	.89	0.05	0.06	0.12	0.33	0.86	1.57	4.29	84.0	.14
UAPSP																				
Marshall	100	85	101	96	68	1	.13	.16	1.03	.26	.32	0.02	0.04	0.07	0.17	0.30	0.59	1.70	103.0	.14
Vermont																				
NADP																				
Bennington	100	81	98	83	43		.12	.14	0.99	.24	.38	0.01	0.03	0.07	0.14	0.23	0.44	2.49	87.0	.10
UAPSP																				
Underhill Center	100	97	94	87	169	47	.06	.05	1.23	.11	.17	-0.03	0.01	0.02	0.05	0.12	0.28	1.33	159.7	.09
Virginia																				
MAP3s/PCN																				
Virginia	98	100	100	97	53	5	.07	.07	1.02	.11	.14	0.02	0.02	0.03	0.07	0.14	0.21	0.84	89.7	.06
Washington																				
NADP																				
Olympic Nat. Park	100	81	98	89	45		.04	.07	1.45	.22	.41	0.01	0.01	0.02	0.06	0.15	0.85	1.74	366.5	.16
West Virginia																				
NADP																				
Parsons	100	100	92	96	50		.15	.17	0.94	.28	.38	0.01	0.06	0.11	0.17	0.31	0.55	2.40	151.6	.23
Wisconsin																				
NADP																				
Trout Lake	100	76	92	76	40		.21	.20	1.09	.50	1.34	0.02	0.06	0.11	0.20	0.27	0.52	7.95	104.3	.22
Wyoming																				
NADP																				
Newcastle	100	95	89	87	42		.28	.32	0.87	.49	.62	0.04	0.13	0.18	0.28	0.49	1.12	3.67	46.6	.13
British Columbia																				
CANSAP																				
Kelowna	100	100	81	100	12		.17	.17	0.75	.24	.24	0.07	0.08	0.09	0.15	0.23	0.78	0.90	50.3	.09
Port Hardy	100	100	80	100	12	2	.13	.12	0.96	.18	.20	0.05	0.05	0.06	0.13	0.20	0.61	0.76	174.9	.23
Revelstoke	100	100	88	100	12		.24	.18	0.82	.26	.32	0.06	0.07	0.10	0.16	0.26	0.98	1.23	112.9	.27
Manitoba																				
CANSAP																				
Bissett	100	100	82	100	12		.50	.46	0.61	.55	.35	0.21	0.22	0.26	0.40	0.93	1.12	1.12	59.2	.30
Dauphin	92	100	92	92	11		2.50	2.12	1.30	4.24	4.87	0.28	0.35	0.64	2.67	9.30	13.07	13.34	50.7	1.27
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	90	100	12	2	.13	.11	0.94	.16	.17	0.05	0.05	0.06	0.10	0.20	0.55	0.65	126.6	.16
Charlo	92	100	75	92	11		.32	.25	1.16	.43	.43	0.05	0.05	0.10	0.20	0.85	1.15	1.15	89.0	.28
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	97	100	12	4	.09	.07	0.81	.09	.06	0.05	0.05	0.05	0.11	0.13	0.20	0.22	127.8	.12
Shelburne	100	100	87	100	12	2	.11	.09	0.70	.11	.06	0.05	0.05	0.06	0.11	0.15	0.21	0.22	129.4	.14
Truro	99	88	82	91	11		.20	.20	0.62	.25	.21	0.07	0.08	0.16	0.20	0.23	0.73	0.83	101.8	.20
APN																				
Kejimkujik	100	97	102	88	118	31	.09	.09	0.98	.16	.22	0.04	0.05	0.05	0.09	0.19	0.28	1.43	126.2	.11
Ontario																				
CANSAP																				
Atikokan	100	100	80	100	12		.31	.33	0.71	.43	.39	0.12	0.13	0.23	0.29	0.55	1.28	1.50	82.2	.26
Dorset	100	100	89	100	12		.20	.17	0.75	.23	.20	0.06	0.07	0.10	0.15	0.31	0.63	0.65	113.6	.23
Kingston	100	100	81	100	12		.99	.75	0.87	1.08	1.02	0.28	0.30	0.37	0.46	1.47	3.19	3.52	101.6	1.01

Calcium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CA Dep g/m2
Peterborough	100	100	84	100	12		.72	.58	0.91	.86	.84	0.16	0.17	0.32	0.44	1.36	2.50	2.55	88.0	.64
Pickle Lake	99	100	79	99	12		.28	.24	0.53	.27	.16	0.13	0.13	0.15	0.22	0.44	0.55	0.58	72.8	.21
Simcoe	96	100	79	96	12		.71	.70	0.80	.93	.73	0.21	0.24	0.35	0.59	1.62	2.18	2.18	100.9	.72
APIOS-D																				
Forbes Twsp.	100	91	94	85	78	1	.14	.09	1.12	.16	.16	0.01	0.02	0.03	0.10	0.20	0.43	0.63	81.7	.11
Quetico Centre	100	89	97	93	77	2	.12	.09	0.99	.14	.12	0.01	0.03	0.05	0.10	0.18	0.31	0.57	73.4	.09
Whitman Creek	100	85	81	91	61		.17	.14	1.05	.24	.26	0.01	0.04	0.06	0.14	0.30	0.57	1.14	58.5	.10
APN																				
Chalk River	100	93	96	93	104	4	.30	.27	1.02	.46	.58	0.05	0.08	0.13	0.26	0.51	1.10	3.67	82.6	.25
ELA	100	92	93	91	78	4	.30	.24	1.03	.42	.56	0.05	0.07	0.13	0.22	0.45	0.95	3.27	69.0	.21
Long Point	100	94	84	95	55	2	.72	.63	1.27	1.27	1.81	0.05	0.11	0.29	0.64	1.31	3.05	8.97	83.0	.60
APIOS-C																				
Alvinston	100	91	79	77	10		.58	.45	0.95	.69	.66	0.11	0.12	0.25	0.35	1.50	1.81	1.84	84.9	.49
Bear Island	100	96	120	92	12		.18	.16	0.84	.22	.19	0.05	0.05	0.08	0.13	0.30	0.61	0.63	64.9	.11
Coldwater	100	100	76	100	13		.27	.26	0.65	.32	.25	0.10	0.12	0.16	0.23	0.40	0.85	0.99	92.3	.25
Dorset	100	100	87	100	13		.18	.16	0.81	.23	.22	0.06	0.06	0.08	0.14	0.33	0.68	0.76	103.2	.19
McKellar	100	86	77	77	10		.19	.17	0.66	.21	.15	0.08	0.08	0.10	0.15	0.33	0.46	0.46	93.4	.18
Ramsey	100	100	103	100	13		.12	.11	0.75	.15	.16	0.03	0.04	0.07	0.12	0.13	0.49	0.66	68.6	.08
Quebec																				
APN																				
Montmorency	100	93	91	79	122	51	.07	.06	0.93	.09	.10	0.01	0.05	0.05	0.06	0.11	0.23	0.52	123.6	.09
Saskatchewan																				
CANSAP																				
Cree Lake	100	100	77	100	12		.25	.27	0.62	.32	.20	0.08	0.10	0.18	0.26	0.41	0.73	0.77	53.3	.13

Chloride

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CL Dep g/m2
Alabama																				
UAPSP																				
Selma	100	100	92	99	153	1	.29	.21	1.11	.39	.61	0.01	0.05	0.09	0.23	0.44	0.79	5.29	235.8	.69
Selma-2	100	100	93	99	101	1	.30	.21	1.13	.42	.75	0.01	0.05	0.09	0.22	0.47	0.81	5.61	141.6	.42
Arizona																				
NADP																				
Oliver Knoll	100	79	93	83	28		.16	.21	0.94	.32	.31	0.03	0.06	0.10	0.23	0.40	0.77	1.50	35.5	.06
Organ Pipe Mon.	98	75	100	79	21		.53	.64	1.35	1.71	3.01	0.11	0.13	0.21	0.47	1.56	6.68	12.47	26.6	.14
Arkansas																				
NADP																				
Fayetteville	100	98	95	84	37		.15	.17	0.86	.25	.26	0.04	0.06	0.09	0.16	0.33	0.61	1.39	142.3	.22
California																				
NADP																				
Davis	100	96	99	87	19		.35	.32	0.96	.49	.50	0.06	0.07	0.18	0.28	0.59	1.53	1.71	83.0	.29
Hopland (Ukiah)	100	98	98	89	27		.73	.59	0.75	.76	.54	0.09	0.22	0.39	0.56	1.01	1.50	2.44	118.3	.86
Sequoia Nat. Park	100	86	92	83	30	2	.29	.16	1.43	.43	.70	0.02	0.03	0.07	0.12	0.51	1.30	3.42	203.1	.59
Tanbark Flat	97	81	94	86	29	1	.55	.64	1.19	1.48	3.02	0.09	0.17	0.32	0.59	1.17	3.95	16.14	95.6	.53
Colorado																				
NADP																				
Manitou	100	83	89	81	33	2	.11	.12	1.03	.19	.23	0.02	0.04	0.06	0.12	0.21	0.50	1.15	45.6	.05
Mesa Verde	100	92	92	83	36	2	.09	.11	1.10	.21	.30	0.02	0.04	0.06	0.10	0.28	0.56	1.68	64.9	.06
Pawnee	100	98	97	83	31	1	.08	.13	0.94	.18	.16	0.02	0.04	0.06	0.14	0.27	0.40	0.76	41.4	.03
Rocky Mt. Nat Park	100	94	95	79	40	2	.09	.12	0.93	.17	.16	0.02	0.04	0.07	0.12	0.22	0.29	0.72	36.8	.03
Sand Spring	100	97	89	94	44	2	.10	.12	1.08	.23	.39	0.02	0.04	0.06	0.12	0.27	0.44	2.01	37.2	.04
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	96	62		2.98	1.13	1.08	2.07	3.27	0.04	0.37	0.50	1.22	2.34	3.33	21.66	98.0	2.92
Florida																				
NADP																				
Bradford Forest	100	95	86	89	41		.45	.58	1.13	1.19	2.05	0.08	0.15	0.26	0.52	1.07	2.79	11.52	150.4	.68
Everglades Nat. Pa	98	76	99	79	40		1.08	1.60	0.91	2.44	2.64	0.25	0.37	0.98	1.51	2.66	7.40	10.99	161.4	1.75
Georgia																				
NADP																				
Georgia Station	100	99	98	91	44	1	.29	.24	0.99	.39	.54	0.02	0.08	0.12	0.25	0.42	0.68	2.92	137.4	.40
UAPSP																				
Uvalda	100	100	96	99	78	1	.26	.25	1.11	.48	.74	0.01	0.07	0.12	0.23	0.51	1.03	4.44	107.5	.28
Hawaii																				
NADP																				
Mauna Loa	100	97	95	92	36	5	.06	.07	1.14	.13	.15	0.02	0.02	0.04	0.08	0.14	0.36	0.64	117.6	.07
Illinois																				
NADP																				
Argonne	98	77	95	75	37		.18	.21	0.93	.32	.31	0.05	0.06	0.09	0.20	0.47	0.70	1.38	106.8	.19
Bondville	100	95	96	83	42	1	.14	.16	0.66	.20	.15	0.05	0.06	0.09	0.15	0.27	0.40	0.76	88.8	.12
Dixon Springs	100	100	90	92	46		.37	.26	0.90	.37	.35	0.03	0.08	0.15	0.27	0.45	0.82	1.57	152.7	.56
NIARC	100	99	94	81	41	1	.14	.16	0.89	.23	.23	0.02	0.06	0.09	0.13	0.28	0.54	0.99	95.4	.13
Salem	98	100	102	90	44	1	.16	.18	0.78	.23	.20	0.02	0.07	0.12	0.17	0.28	0.42	0.99	107.4	.18
Southern Ill U	100	100	99	92	46	1	.22	.21	0.88	.29	.22	0.02	0.07	0.15	0.21	0.37	0.67	0.88	130.2	.28
MAP3s/PCN																				
Illinois	100	98	99	94	77		.21	.23	0.66	.29	.24	0.07	0.10	0.14	0.23	0.30	0.51	1.49	90.5	.19

Chloride

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Concentration Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CL Dep g/m2
Indiana																				
NADP																				
Indiana Dunes	98	100	83	87	44	1	.18	.18	0.93	.27	.23	0.02	0.05	0.12	0.20	0.35	0.65	1.14	108.6	.20
UAPSP																				
Roanoke	100	97	95	97	95		.16	.15	0.95	.23	.22	0.02	0.04	0.07	0.13	0.32	0.59	1.03	108.7	.18
Rockport	100	94	94	98	106		.27	.19	0.90	.28	.33	0.01	0.06	0.11	0.19	0.32	0.59	2.48	115.2	.31
Kansas																				
UAPSP																				
Lancaster	100	99	90	97	94		.10	.10	0.98	.16	.22	0.01	0.03	0.05	0.10	0.17	0.36	1.36	114.5	.11
Kentucky																				
UAPSP																				
Morehead	100	100	98	97	123	2	.15	.16	0.88	.25	.38	0.00	0.05	0.09	0.15	0.26	0.52	3.87	124.0	.18
Maine																				
NADP																				
Caribou	100	92	90	87	43	3	.11	.13	1.10	.22	.30	0.02	0.04	0.07	0.12	0.26	0.52	1.68	94.6	.10
Greenville Station	100	91	86	92	48	3	.13	.12	1.05	.19	.22	0.02	0.03	0.06	0.13	0.25	0.39	1.25	85.6	.11
UAPSP																				
Winterport	100	96	98	96	99	1	.39	.19	1.36	.47	.83	0.01	0.03	0.07	0.22	0.49	1.03	5.10	81.8	.32
Massachusetts																				
NADP																				
East	91	93	91	84	40		.46	.49	0.99	.74	.68	0.04	0.14	0.29	0.49	0.95	1.66	3.06	96.1	.44
UAPSP																				
Turners Falls	100	100	92	99	82		.21	.21	1.13	.38	.45	0.03	0.05	0.09	0.18	0.55	1.07	2.04	101.8	.22
Michigan																				
NADP																				
Kellogg	98	82	92	75	37	1	.11	.13	0.75	.17	.12	0.02	0.06	0.09	0.15	0.21	0.33	0.64	85.2	.10
UAPSP																				
Gaylord	100	96	93	97	106	2	.08	.06	0.83	.09	.09	0.00	0.03	0.04	0.06	0.10	0.21	0.53	68.6	.05
Minnesota																				
NADP																				
Fernberg	100	88	90	83	43	3	.08	.09	1.03	.16	.23	0.02	0.03	0.06	0.08	0.16	0.37	1.28	79.0	.06
Lamberton	100	94	91	82	34	1	.11	.13	1.25	.39	1.23	0.02	0.03	0.05	0.15	0.29	0.56	7.30	77.4	.09
Marcell	100	97	93	88	47	3	.06	.08	0.92	.14	.21	0.02	0.03	0.04	0.08	0.13	0.30	1.09	81.7	.05
Mississippi																				
NADP																				
Meridian	100	86	86	75	38		.37	.30	0.92	.47	.56	0.05	0.08	0.17	0.32	0.49	1.02	2.51	165.1	.61
UAPSP																				
Clinton	100	100	100	99	106	1	.27	.24	1.07	.41	.50	0.01	0.06	0.13	0.23	0.46	0.94	3.11	158.9	.43
Missouri																				
NADP																				
Ashland	100	99	97	90	43	1	.13	.15	0.97	.25	.44	0.02	0.04	0.09	0.15	0.24	0.51	2.89	125.2	.16
University Forest	100	90	95	81	43		.30	.24	1.00	.40	.51	0.03	0.06	0.13	0.26	0.51	0.77	2.90	135.8	.41
Montana																				
NADP																				
Glacier Nat Park	100	89	86	91	48	5	.07	.08	0.99	.12	.11	0.02	0.02	0.05	0.08	0.17	0.28	0.48	91.9	.06
Nebraska																				
NADP																				
Mead	100	94	100	81	34	1	.20	.19	1.24	.41	.61	0.02	0.06	0.07	0.16	0.43	1.40	2.86	95.6	.19
New Hampshire																				
NADP																				
Hubbard Brook	100	90	91	83	42		.15	.14	0.89	.21	.21	0.03	0.04	0.07	0.12	0.31	0.47	0.99	101.6	.15

Chloride

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CL Dep g/m2
New York																				
NADP																				
Aurora	100	98	88	92	46		.18	.23	0.93	.38	.61	0.04	0.08	0.11	0.24	0.39	0.73	4.12	74.4	.14
Chautauqua	100	98	88	89	46	1	.17	.20	0.95	.30	.34	0.02	0.07	0.13	0.17	0.35	0.70	1.95	95.6	.16
Jasper	96	75	97	75	36	1	.09	.15	0.99	.23	.22	0.02	0.04	0.09	0.17	0.26	0.65	0.91	75.9	.07
Knobit	98	93	100	88	44	1	.14	.17	1.09	.34	.62	0.02	0.05	0.08	0.15	0.32	1.04	3.03	78.1	.11
Stilwell Lake	100	93	94	89	46	1	.23	.25	1.13	.44	.57	0.02	0.06	0.15	0.23	0.47	1.08	2.62	115.7	.27
MAP3s/PCN																				
Brookhaven	100	100	99	98	62		1.40	.80	1.07	1.28	1.15	0.08	0.17	0.35	0.92	2.05	3.08	4.26	107.4	1.50
Ithaca	100	99	97	99	80		.19	.22	0.74	.29	.25	0.06	0.09	0.13	0.23	0.39	0.63	1.38	93.4	.17
Whiteface	99	97	115	95	87	4	.09	.10	0.74	.13	.10	0.02	0.05	0.07	0.10	0.16	0.24	0.67	82.2	.08
North Carolina																				
NADP																				
Coweeta	100	86	97	87	46	3	.22	.14	1.17	.27	.37	0.02	0.04	0.07	0.15	0.32	0.68	2.10	182.5	.40
Finley (A)	100	78	94	77	39		.26	.24	0.98	.40	.48	0.06	0.07	0.09	0.24	0.49	0.91	2.55	117.7	.30
Lewiston	100	100	103	94	45		.48	.36	1.20	.82	1.46	0.04	0.07	0.17	0.32	0.68	1.97	7.68	116.4	.56
Piedmont Station	100	99	96	89	46		.26	.27	1.19	.75	1.87	0.04	0.08	0.13	0.22	0.48	1.52	10.33	109.2	.28
R Triangle Inst	100	94	101	83	40	2	.21	.20	1.20	.37	.45	0.02	0.05	0.09	0.19	0.47	1.02	2.29	139.4	.30
R Triangle Park	100	100	90	92	42		.24	.20	0.96	.31	.32	0.04	0.05	0.09	0.19	0.39	0.87	1.32	149.7	.36
UAPSP																				
Raleigh	100	97	94	93	86		.26	.18	1.07	.32	.49	0.02	0.05	0.08	0.18	0.34	0.61	2.92	114.7	.30
North Dakota																				
NADP																				
Teddy Roosevelt NP	100	83	88	76	36	2	.08	.10	0.86	.14	.13	0.02	0.04	0.05	0.09	0.19	0.32	0.61	54.2	.04
Ohio																				
NADP																				
Caldwell	100	90	99	91	43		.30	.25	0.79	.35	.34	0.05	0.09	0.15	0.22	0.41	0.65	1.85	96.2	.29
Delaware	100	98	102	92	47		.19	.23	0.86	.34	.34	0.03	0.09	0.13	0.23	0.38	0.90	1.76	81.5	.16
Wooster	100	88	98	83	43		.16	.20	0.73	.25	.18	0.04	0.07	0.12	0.18	0.34	0.49	0.97	87.7	.14
MAP3s/PCN																				
Oxford	100	98	109	95	72		.20	.22	0.59	.27	.20	0.07	0.11	0.15	0.21	0.30	0.50	1.10	99.0	.20
UAPSP																				
Zanesville	100	100	99	100	100		.21	.22	0.87	.31	.32	0.02	0.07	0.13	0.22	0.35	0.69	2.01	90.0	.19
Pennsylvania																				
NADP																				
Leading Ridge	100	100	90	98	50		.20	.23	0.90	.34	.33	0.04	0.07	0.12	0.20	0.47	0.95	1.43	104.1	.21
MAP3s/PCN																				
Penn State	99	98	116	95	80		.25	.29	0.68	.36	.29	0.07	0.11	0.19	0.27	0.42	0.77	1.63	85.1	.21
UAPSP																				
Scranton	100	97	96	96	104		.15	.14	1.00	.21	.18	0.01	0.04	0.07	0.14	0.32	0.50	0.89	75.1	.11
South Dakota																				
UAPSP																				
Brookings	100	91	105	98	57	3	.06	.06	0.85	.08	.08	-0.01	0.02	0.03	0.06	0.09	0.17	0.43	61.9	.03
Brookings-2	100	90	102	98	53	2	.05	.05	0.86	.08	.11	0.00	0.02	0.03	0.06	0.09	0.16	0.81	61.2	.03
Tennessee																				
NADP																				
Elkmont	98	82	101	81	43	2	.10	.11	0.96	.18	.25	0.02	0.05	0.07	0.10	0.19	0.39	1.28	153.5	.15
Walker Branch	100	94	96	92	48		.19	.20	0.78	.28	.30	0.06	0.08	0.12	0.16	0.31	0.89	1.52	145.3	.28
MAP3s/PCN																				
Oak Ridge	100	100	100	99	62		.24	.22	0.66	.28	.24	0.07	0.10	0.13	0.18	0.29	0.57	1.17	148.1	.36
UAPSP																				
Alamo	100	99	87	100	49		.19	.21	0.97	.33	.41	0.01	0.08	0.11	0.21	0.38	0.58	2.07	120.7	.23

Chloride

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CL Dep g/m2
Texas																				
NADP																				
Forest Seed Ctr	100	82	97	79	36		.48	.40	1.07	.62	.58	0.02	0.09	0.25	0.49	0.84	1.37	2.99	127.4	.62
K-Bar	98	85	91	79	23	1	.15	.19	1.16	.40	.71	0.02	0.06	0.11	0.19	0.27	1.56	2.97	37.5	.06
Victoria	100	99	100	85	33		.91	1.30	1.36	3.39	5.45	0.17	0.23	0.45	1.14	2.85	13.96	23.06	84.0	.77
UAPSP																				
Marshall	100	86	101	98	76		.32	.32	1.07	.55	.65	0.04	0.07	0.13	0.30	0.73	1.35	3.47	103.0	.33
Vermont																				
NADP																				
Bennington	100	81	98	83	43	2	.11	.12	1.00	.19	.21	0.02	0.03	0.07	0.12	0.20	0.55	0.92	87.0	.10
UAPSP																				
Underhill Center	100	99	93	93	194	3	.08	.09	0.96	.13	.13	0.00	0.02	0.04	0.09	0.17	0.28	0.72	159.7	.13
Virginia																				
MAP3s/PCN																				
Virginia	98	100	100	97	53	1	.30	.22	1.11	.62	2.23	0.02	0.07	0.10	0.19	0.41	0.67	16.33	89.7	.26
Washington																				
NADP																				
Olympic Nat. Park	100	81	98	89	45		.90	.57	1.16	1.03	1.16	0.04	0.18	0.23	0.50	1.56	2.83	5.05	366.5	3.29
West Virginia																				
NADP																				
Parsons	100	100	92	96	50	1	.10	.12	0.86	.18	.21	0.02	0.05	0.07	0.10	0.20	0.40	1.08	151.6	.15
Wisconsin																				
NADP																				
Trout Lake	100	76	92	76	40		.08	.10	0.82	.15	.21	0.03	0.04	0.05	0.07	0.14	0.37	1.05	104.3	.08
Wyoming																				
NADP																				
Newcastle	100	95	89	87	42	3	.08	.10	1.00	.17	.20	0.02	0.04	0.06	0.09	0.19	0.53	0.85	46.6	.04
British Columbia																				
CANSAP																				
Kelowna	100	100	81	100	12		.18	.19	0.59	.22	.11	0.06	0.06	0.13	0.21	0.29	0.39	0.40	50.3	.09
Port Hardy	100	100	80	100	12		2.84	1.66	0.95	2.42	2.12	0.48	0.50	0.59	2.28	3.54	6.59	7.76	174.9	4.96
Revelstoke	100	100	88	100	12		.21	.19	0.43	.21	.10	0.10	0.10	0.14	0.18	0.29	0.38	0.39	112.9	.24
Manitoba																				
CANSAP																				
Bissett	100	100	82	100	12	1	.18	.15	0.74	.18	.10	0.05	0.06	0.10	0.17	0.29	0.33	0.33	59.2	.11
Dauphin	92	100	92	92	11		.43	.41	1.20	.69	.67	0.06	0.07	0.10	0.63	0.90	2.07	2.19	50.7	.22
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	90	100	12	1	.34	.24	1.11	.37	.34	0.05	0.05	0.11	0.23	0.73	0.94	0.96	126.6	.43
Charlo	92	100	75	92	11		1.12	.91	0.73	1.22	1.23	0.36	0.40	0.55	0.70	1.53	4.09	4.61	89.0	1.00
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	97	100	12	2	1.46	.43	1.71	1.14	1.42	0.05	0.05	0.16	0.54	1.92	4.11	4.67	127.8	1.87
Shelburne	100	100	87	100	12		2.82	1.80	0.88	2.42	1.76	0.40	0.42	0.96	2.29	3.27	5.68	5.98	129.4	3.65
Truro	99	100	83	99	12	1	1.01	.65	1.31	1.08	.97	0.05	0.09	0.35	1.00	1.59	3.04	3.52	101.8	1.03
APN																				
Kejimkujik	100	100	103	96	148	6	1.53	1.17	1.48	3.77	11.78	0.05	0.20	0.47	1.23	2.99	5.73	115.2	126.2	1.93
Ontario																				
CANSAP																				
Atikokan	100	100	80	100	12	2	.25	.24	1.35	.50	.69	0.05	0.05	0.10	0.32	0.65	2.02	2.57	82.2	.21
Dorset	100	100	89	100	12	1	.15	.14	0.77	.18	.13	0.05	0.06	0.09	0.16	0.20	0.45	0.46	113.6	.17
Kingston	100	100	81	100	12		1.06	.43	1.26	1.07	2.03	0.07	0.09	0.19	0.42	0.71	5.71	7.28	101.6	1.08

Chloride

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	CL Dep g/m2
Peterborough	100	100	84	100	12		.28	.26	0.71	.32	.19	0.08	0.08	0.16	0.32	0.52	0.59	0.60	88.8	.25
Pickle Lake	99	100	79	99	12	1	.30	.19	0.94	.28	.27	0.05	0.07	0.11	0.18	0.42	0.86	1.03	72.8	.22
Simcoe	96	100	79	96	12		.51	.55	0.64	.64	.30	0.15	0.16	0.41	0.72	0.80	1.09	1.16	100.9	.52
APIOS-D																				
Forbes Twsp.	100	89	94	88	89	3	.06	.06	0.87	.09	.08	0.01	0.02	0.04	0.06	0.11	0.21	0.48	81.7	.05
Quetico Centre	100	83	96	94	82	1	.06	.07	0.74	.09	.06	0.01	0.03	0.04	0.07	0.11	0.19	0.27	73.4	.05
Whitman Creek	100	81	84	93	70	1	.17	.17	0.97	.25	.25	0.01	0.06	0.08	0.18	0.30	0.73	1.18	58.5	.10
APN																				
Chalk River	100	96	96	98	118	4	.34	.35	0.92	.55	.76	0.05	0.13	0.21	0.34	0.61	1.06	6.20	82.6	.28
ELA	100	100	91	99	108	11	.25	.25	1.11	.48	.83	0.05	0.07	0.11	0.26	0.49	0.90	5.49	69.0	.17
Long Point	100	97	83	99	68	2	.47	.44	1.07	.84	1.67	0.05	0.10	0.22	0.46	0.85	1.36	12.83	83.0	.39
APIOS-C																				
Alvinston	100	100	76	100	13		.25	.21	1.25	.34	.27	0.01	0.02	0.14	0.30	0.48	0.86	0.93	84.9	.21
Bear Island	100	90	121	85	11		.10	.09	0.86	.12	.11	0.02	0.02	0.05	0.10	0.13	0.39	0.43	64.9	.07
Coldwater	100	100	76	100	13		.15	.14	0.56	.16	.08	0.04	0.05	0.10	0.15	0.19	0.30	0.32	92.3	.14
Dorset	100	86	87	92	12		.13	.12	0.48	.13	.05	0.04	0.05	0.08	0.15	0.17	0.20	0.21	103.2	.14
McKellar	100	86	77	77	10		.20	.19	0.76	.24	.17	0.04	0.05	0.12	0.19	0.30	0.61	0.64	93.4	.19
Nakina	100	98	78	91	12		.08	.08	0.82	.10	.06	0.01	0.02	0.04	0.08	0.14	0.20	0.22	63.5	.05
Ramsey	100	92	104	92	12		.12	.10	0.72	.12	.10	0.04	0.04	0.05	0.08	0.20	0.31	0.31	68.6	.08
Quebec																				
APN																				
Montmorency	100	97	89	90	165	16	.17	.19	1.09	.36	.58	0.05	0.05	0.10	0.19	0.30	0.84	4.10	123.6	.22
Saskatchewan																				
CANSAP																				
Cree Lake	100	100	77	100	12	1	.28	.26	1.26	.47	.46	0.05	0.05	0.09	0.37	0.83	1.32	1.39	53.3	.15

Sodium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Concentration: Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NA Dep g/m2
Alabama																				
UAPSP																				
Selma	100	100	93	97	147	21	.16	.11	1.30	.21	.28	-0.02	0.01	0.05	0.12	0.31	0.51	2.37	235.8	.38
Selma-2	100	99	93	98	97	14	.16	.10	1.34	.22	.33	-0.01	0.01	0.04	0.11	0.28	0.50	2.49	141.6	.23
Arizona																				
NADP																				
Oliver Knoll	100	79	93	83	28		.10	.12	1.00	.19	.20	0.02	0.03	0.06	0.13	0.26	0.45	0.95	35.5	.04
Organ Pipe Mon.	98	75	100	79	21		.31	.39	1.37	1.01	1.74	0.05	0.07	0.12	0.45	0.86	3.64	7.40	26.6	.08
Arkansas																				
NADP																				
Fayetteville	100	98	95	84	37		.09	.10	0.94	.17	.25	0.02	0.03	0.05	0.09	0.20	0.34	1.50	142.3	.13
California																				
NADP																				
Davis	100	96	99	87	19		.21	.19	0.99	.32	.42	0.04	0.07	0.09	0.14	0.30	0.96	1.73	83.0	.18
Hopland (Ukiah)	100	98	98	89	27		.42	.37	0.78	.50	.44	0.09	0.12	0.21	0.31	0.56	1.34	1.88	118.3	.50
Sequoia Nat. Park	100	86	92	83	30		.06	.09	1.29	.20	.27	0.01	0.02	0.03	0.07	0.29	0.64	1.13	203.1	.13
Tanbark Flat	97	81	94	86	29		.29	.35	1.38	.96	1.88	0.04	0.05	0.12	0.40	0.66	3.57	9.17	95.6	.28
Colorado																				
NADP																				
Manitou	100	83	89	81	33		.05	.08	1.14	.15	.23	0.01	0.02	0.03	0.08	0.15	0.57	1.05	45.6	.02
Mesa Verde	100	92	92	83	36		.05	.07	1.19	.15	.26	0.00	0.02	0.03	0.05	0.16	0.40	1.50	64.9	.03
Pawnee	100	98	97	83	31		.06	.09	1.07	.18	.36	0.01	0.02	0.05	0.10	0.18	0.32	2.06	41.4	.03
Rocky Mt. Nat Park	100	94	95	79	40		.06	.07	0.88	.10	.09	0.01	0.02	0.05	0.08	0.16	0.21	0.41	36.8	.02
Sand Spring	100	97	89	94	44		.08	.09	1.40	.50	1.86	0.01	0.02	0.04	0.08	0.17	0.39	11.79	37.2	.03
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	96	62		1.47	.62	1.20	1.13	1.50	0.01	0.15	0.28	0.77	1.41	2.01	8.97	98.0	1.45
Florida																				
NADP																				
Bradford Forest	100	95	86	89	41		.23	.32	1.15	.66	1.12	0.04	0.07	0.13	0.35	0.60	1.58	6.30	150.4	.35
Everglades Nat. Pa	98	76	99	79	40		.60	.90	0.97	1.51	2.04	0.13	0.22	0.50	0.87	1.54	3.42	9.50	161.4	.97
Georgia																				
NADP																				
Georgia Station	100	99	98	91	44		.16	.13	0.95	.20	.27	0.01	0.03	0.08	0.14	0.26	0.35	1.71	137.4	.22
UAPSP																				
Uvalda	100	99	96	98	75	4	.14	.13	1.06	.22	.29	0.00	0.04	0.07	0.13	0.25	0.51	1.88	107.5	.15
Hawaii																				
NADP																				
Mauna Loa	100	97	95	92	36	1	.03	.04	1.26	.08	.11	0.00	0.01	0.02	0.04	0.08	0.27	0.47	117.6	.03
Illinois																				
NADP																				
Argonne	98	77	95	75	37		.09	.11	1.01	.18	.18	0.02	0.03	0.05	0.11	0.24	0.52	0.67	106.8	.10
Bondville	100	95	96	83	42		.08	.08	0.86	.11	.09	0.01	0.02	0.04	0.08	0.17	0.19	0.41	88.8	.07
Dixon Springs	100	100	90	92	46		.19	.12	0.94	.18	.18	0.02	0.03	0.07	0.11	0.22	0.40	0.89	152.7	.29
NIARC	100	99	94	81	41		.11	.10	1.05	.18	.24	0.01	0.03	0.04	0.09	0.19	0.59	1.03	95.4	.10
Salem	98	100	102	90	44		.10	.09	0.80	.12	.11	0.01	0.03	0.06	0.09	0.15	0.25	0.58	107.4	.10
Southern Ill U	100	100	99	92	46		.12	.11	0.87	.15	.11	0.02	0.03	0.06	0.13	0.21	0.37	0.43	130.2	.15
MAP3s/PCN																				
Illinois	100	98	99	94	77	1	.08	.07	1.00	.11	.14	0.01	0.02	0.04	0.06	0.17	0.21	0.78	90.5	.07

Sodium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration												Total Precip cm	NA Dep g/m2
								Geometric		Arithmetic		Percentiles mg/l								
							Wtd Mean mg/l	Mean mg/l	SD	Mean mg/l	SD mg/l	Min	10%	25%	50%	75%	90%	Max		
Indiana																				
NADP																				
Indiana Dunes	98	100	83	87	44		.09	.09	0.88	.13	.11	0.02	0.02	0.04	0.10	0.17	0.25	0.66	108.6	.09
UAPSP																				
Roanoke	100	95	95	94	87	34	.07	.04	1.29	.09	.11	-0.02	0.00	0.01	0.05	0.13	0.25	0.65	108.7	.08
Rockport	100	93	94	96	96	23	.57	.06	1.35	.29	1.83	-0.03	0.01	0.03	0.07	0.16	0.31	18.01	115.2	.66
Kansas																				
UAPSP																				
Lancaster	100	96	90	94	84	35	.06	.03	1.21	.08	.20	-0.02	0.00	0.01	0.04	0.09	0.15	1.72	114.5	.06
Kentucky																				
UAPSP																				
Morehead	100	99	98	94	112	36	.07	.04	1.21	.09	.12	-0.02	0.01	0.02	0.05	0.09	0.21	0.70	124.0	.08
Maine																				
NADP																				
Caribou	100	92	90	87	43		.07	.08	1.13	.20	.59	0.01	0.02	0.04	0.07	0.13	0.34	3.87	94.6	.06
Greenville Station	100	91	86	92	48		.10	.08	1.10	.16	.34	0.01	0.02	0.04	0.08	0.15	0.27	2.25	85.6	.09
UAPSP																				
Winterport	100	94	99	93	86	22	.21	.08	1.53	.24	.44	-0.01	0.01	0.03	0.09	0.26	0.58	2.96	81.8	.17
Massachusetts																				
NADP																				
East	91	93	91	84	40		.22	.19	1.30	.39	.65	0.01	0.03	0.08	0.24	0.39	0.84	3.92	96.1	.21
UAPSP																				
Turners Falls	100	99	92	96	75	22	.09	.06	1.47	.17	.26	-0.02	0.00	0.02	0.07	0.15	0.56	1.23	101.8	.09
Michigan																				
NADP																				
Kellogg	98	82	92	75	37		.06	.06	0.78	.08	.07	0.02	0.02	0.03	0.07	0.11	0.21	0.24	85.2	.05
UAPSP																				
Gaylord	100	92	95	92	87	47	.03	.02	1.00	.04	.06	-0.04	0.00	0.01	0.02	0.05	0.10	0.35	68.6	.02
Minnesota																				
NADP																				
Fernberg	100	88	90	83	43		.06	.06	1.07	.12	.20	0.01	0.02	0.03	0.04	0.11	0.33	1.04	79.0	.05
Lamberton	100	94	91	82	34		.07	.08	1.24	.24	.71	0.01	0.02	0.03	0.07	0.19	0.39	4.19	77.4	.05
Marcell	100	97	93	88	47		.04	.05	1.10	.15	.41	0.01	0.02	0.03	0.04	0.07	0.22	2.54	81.7	.04
Mississippi																				
NADP																				
Meridian	100	86	86	75	38		.22	.18	0.96	.32	.51	0.03	0.06	0.10	0.19	0.33	0.52	2.92	165.1	.35
UAPSP																				
Clinton	100	100	100	97	100	10	.15	.12	1.19	.22	.25	-0.02	0.03	0.06	0.14	0.30	0.56	1.38	158.9	.24
Missouri																				
NADP																				
Ashland	100	99	97	90	43		.08	.09	0.82	.14	.26	0.02	0.03	0.05	0.08	0.12	0.26	1.74	125.2	.10
University Forest	100	90	95	81	43		.17	.13	1.11	.25	.36	0.02	0.03	0.05	0.12	0.28	0.67	2.07	135.8	.23
Montana																				
NADP																				
Glacier Nat Park	100	89	86	91	48		.06	.05	0.80	.08	.09	0.01	0.02	0.03	0.05	0.10	0.16	0.52	91.9	.05
Nebraska																				
NADP																				
Mead	100	94	100	81	34		.08	.12	1.28	.30	.53	0.01	0.02	0.06	0.09	0.23	1.04	2.20	95.6	.07
New Hampshire																				
NADP																				
Hubbard Brook	100	90	91	83	42		.09	.08	1.19	.17	.30	0.01	0.02	0.04	0.07	0.19	0.36	1.46	101.6	.09

Sodium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NA Dep g/m2
New York																				
NADP																				
Aurora	100	98	88	92	46		.09	.09	1.11	.17	.32	0.01	0.02	0.04	0.08	0.17	0.34	2.15	74.4	.06
Chautauqua	100	98	88	89	46		.06	.07	1.01	.12	.15	0.01	0.02	0.03	0.08	0.15	0.29	0.69	95.6	.06
Jasper	96	75	97	75	36		.04	.07	1.03	.12	.15	0.01	0.02	0.03	0.07	0.12	0.28	0.75	75.9	.03
Knobit	98	93	100	88	44		.08	.09	1.22	.21	.34	0.01	0.02	0.03	0.08	0.17	0.65	1.60	78.1	.06
Stilwell Lake	100	93	94	89	46		.12	.11	1.22	.26	.45	0.01	0.02	0.06	0.10	0.19	0.64	2.00	115.7	.14
MAP3s/PCN																				
Brookhaven	100	100	99	98	62		.82	.43	1.29	.77	.69	0.01	0.06	0.19	0.53	1.32	1.83	2.53	107.4	.88
Ithaca	100	99	97	99	80	3	.05	.06	1.05	.10	.12	0.01	0.02	0.03	0.05	0.12	0.27	0.55	93.4	.05
Whiteface	99	97	115	95	87	1	.04	.05	1.01	.08	.10	0.01	0.01	0.02	0.05	0.10	0.19	0.46	82.2	.03
North Carolina																				
NADP																				
Coweeta	100	86	97	87	46		.12	.08	1.14	.16	.23	0.00	0.02	0.04	0.07	0.20	0.46	1.28	182.5	.23
Finley (A)	100	78	94	77	39		.14	.13	1.15	.23	.28	0.01	0.02	0.05	0.13	0.30	0.55	1.46	117.7	.17
Lewiston	100	100	103	94	45		.29	.22	1.28	.53	.87	0.02	0.04	0.09	0.18	0.59	1.26	4.38	116.4	.34
Piedmont Station	100	99	96	89	46		.14	.13	1.36	.47	1.31	0.02	0.03	0.04	0.09	0.27	1.06	7.70	109.2	.15
R Triangle Inst	100	94	101	83	40		.11	.10	1.16	.20	.27	0.01	0.02	0.05	0.08	0.27	0.51	1.46	139.4	.16
R Triangle Park	100	100	90	92	42		.12	.10	1.08	.16	.16	0.02	0.02	0.04	0.10	0.23	0.45	0.63	149.7	.19
UAPSP																				
Raleigh	100	97	94	93	86	23	.13	.06	1.40	.16	.27	-0.03	0.01	0.02	0.07	0.14	0.34	1.62	114.7	.15
North Dakota																				
NADP																				
Teddy Roosevelt NP	100	83	88	76	36		.06	.08	0.88	.12	.12	0.02	0.02	0.04	0.07	0.14	0.31	0.49	54.2	.03
Ohio																				
NADP																				
Caldwell	100	90	99	91	43		.08	.08	0.97	.13	.14	0.01	0.02	0.04	0.07	0.16	0.32	0.66	96.2	.08
Delaware	100	98	102	92	47		.08	.10	1.08	.19	.29	0.02	0.02	0.04	0.09	0.19	0.55	1.67	81.5	.07
Wooster	100	88	98	83	43		.07	.08	0.88	.11	.09	0.01	0.02	0.04	0.08	0.16	0.23	0.41	87.7	.06
MAP3s/PCN																				
Oxford	100	98	109	95	72		.10	.11	0.79	.16	.14	0.02	0.04	0.08	0.11	0.20	0.41	0.62	99.0	.10
UAPSP																				
Zanesville	100	99	99	98	93	22	.08	.06	1.22	.11	.16	-0.02	0.01	0.03	0.07	0.13	0.30	1.13	90.0	.07
Pennsylvania																				
NADP																				
Leading Ridge	100	100	90	98	50		.11	.09	1.15	.17	.21	0.01	0.02	0.04	0.06	0.21	0.51	1.00	104.1	.12
MAP3s/PCN																				
Penn State	99	98	116	95	80		.12	.12	1.04	.20	.21	0.01	0.03	0.05	0.10	0.30	0.51	1.08	85.1	.10
UAPSP																				
Scranton	100	94	97	92	88	37	.06	.03	1.23	.07	.11	-0.03	0.00	0.01	0.03	0.08	0.20	0.58	75.1	.04
South Dakota																				
UAPSP																				
Brookings	100	90	105	97	53	24	.03	.03	0.96	.04	.04	-0.01	0.00	0.01	0.03	0.06	0.09	0.20	61.9	.02
Brookings-2	100	89	104	98	51	26	.03	.02	0.99	.04	.05	-0.01	0.00	0.01	0.03	0.05	0.11	0.20	61.2	.02
Tennessee																				
NADP																				
Elkmont	98	82	101	81	43		.06	.06	0.98	.11	.16	0.01	0.02	0.03	0.05	0.13	0.21	0.99	153.5	.09
Walker Branch	100	94	96	92	48		.09	.09	1.07	.16	.20	0.01	0.03	0.04	0.08	0.17	0.44	1.04	145.3	.13
MAP3s/PCN																				
Oak Ridge	100	100	100	99	62		.11	.10	0.91	.15	.16	0.01	0.03	0.05	0.10	0.19	0.32	0.83	148.1	.17
UAPSP																				
Alamo	100	99	88	99	47	6	.10	.10	1.12	.16	.19	-0.01	0.03	0.05	0.11	0.22	0.30	1.18	120.7	.13

Sodium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Concentration Geometric Mean mg/l	Concentration Geometric SD	Concentration Arithmetic Mean mg/l	Concentration Arithmetic SD mg/l	Percentiles mg/l Min	Percentiles mg/l 10%	Percentiles mg/l 25%	Percentiles mg/l 50%	Percentiles mg/l 75%	Percentiles mg/l 90%	Percentiles mg/l Max	Total Precip cm	NA Dep g/m2
Texas																				
NADP																				
Forest Seed Ctr	100	82	97	79	36		.27	.27	1.21	.57	1.03	0.01	0.06	0.14	0.27	0.61	1.44	5.96	127.4	.35
K-Bar	98	85	91	79	23		.14	.15	1.43	.62	1.74	0.01	0.03	0.07	0.13	0.35	1.82	8.23	37.5	.05
Victoria	100	99	100	85	33		.50	.75	1.32	1.88	3.00	0.09	0.19	0.27	0.63	1.80	7.84	12.20	84.0	.42
UAPSP																				
Marshall	100	85	101	96	68	4	.18	.16	1.18	.29	.36	0.00	0.04	0.07	0.17	0.40	0.58	2.28	103.0	.18
Vermont																				
NADP																				
Bennington	100	81	98	83	43		.06	.06	0.96	.10	.11	0.01	0.02	0.03	0.07	0.13	0.28	0.50	87.0	.05
UAPSP																				
Underhill Center	100	96	94	86	167	99	.03	.02	1.01	.04	.07	-0.03	0.00	0.01	0.02	0.05	0.10	0.62	159.7	.04
Virginia																				
MAP3s/PCN																				
Virginia	98	100	100	97	53		.12	.10	1.14	.31	1.22	0.02	0.03	0.04	0.08	0.20	0.36	8.97	89.7	.11
Washington																				
NADP																				
Olympic Nat. Park	100	81	98	89	45		.49	.31	1.22	.58	.66	0.01	0.06	0.12	0.25	0.93	1.72	2.73	366.5	1.78
West Virginia																				
NADP																				
Parsons	100	100	92	96	50		.05	.05	1.01	.09	.12	0.01	0.02	0.02	0.05	0.11	0.21	0.74	151.6	.07
Wisconsin																				
NADP																				
Trout Lake	100	76	92	76	40		.04	.05	0.98	.10	.21	0.01	0.02	0.02	0.04	0.07	0.13	1.03	104.3	.04
Wyoming																				
NADP																				
Newcastle	100	95	89	87	42		.07	.07	1.25	.21	.44	0.01	0.02	0.03	0.05	0.14	0.57	2.22	46.6	.03
British Columbia																				
CANSAP																				
Kelowna	100	100	81	100	12		.13	.12	0.84	.16	.10	0.02	0.03	0.06	0.16	0.24	0.32	0.32	50.3	.07
Port Hardy	100	100	80	100	12		1.63	.98	0.98	1.47	1.29	0.31	0.31	0.34	1.18	2.16	3.90	4.12	174.9	2.84
Revelstoke	100	100	88	100	12		.15	.14	0.54	.16	.09	0.05	0.06	0.10	0.13	0.24	0.32	0.32	112.9	.17
Manitoba																				
CANSAP																				
Bissett	100	100	82	100	12		.14	.13	0.46	.15	.07	0.05	0.07	0.10	0.12	0.18	0.29	0.33	59.2	.08
Dauphin	92	98	93	84	10		.29	.29	0.97	.44	.40	0.07	0.08	0.13	0.26	0.91	1.10	1.12	50.7	.15
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	90	100	12	1	.21	.12	1.19	.21	.20	0.02	0.03	0.05	0.14	0.35	0.61	0.65	126.6	.27
Charlo	92	100	75	92	11		.71	.60	0.75	.79	.67	0.20	0.21	0.36	0.47	0.96	2.27	2.45	89.0	.63
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	97	100	12		.82	.36	1.18	.67	.75	0.08	0.09	0.12	0.38	1.07	2.18	2.31	127.8	1.04
Shelburne	100	100	87	100	12		1.41	1.06	0.64	1.26	.76	0.45	0.46	0.52	1.17	1.78	2.64	2.81	129.4	1.82
Truro	99	88	82	91	11		.72	.50	1.09	.80	.77	0.10	0.11	0.17	0.64	1.21	2.25	2.30	101.8	.73
APN																				
Kejimkujik	100	96	102	85	107		.71	.47	1.29	1.16	3.34	0.02	0.10	0.20	0.50	1.22	1.93	33.84	126.2	.90
Ontario																				
CANSAP																				
Atikokan	100	100	80	100	12	1	.18	.18	1.33	.34	.43	0.02	0.03	0.09	0.20	0.44	1.31	1.56	82.2	.15
Dorset	100	100	89	100	12	1	.10	.06	1.07	.11	.17	0.02	0.02	0.03	0.08	0.08	0.50	0.65	113.6	.12
Kingston	100	100	81	100	12	1	.56	.15	1.59	.60	1.31	0.02	0.03	0.07	0.11	0.27	3.63	4.55	101.6	.57

Sodium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/1	Concentration: Geometric Mean mg/1	Geometric SD	Arithmetic Mean mg/1	Arithmetic SD mg/1	Percentiles mg/1: Min	10%	25%	50%	75%	90%	Max	Total Precip cm	NA Dep g/m2
Peterborough	100	100	84	100	12	3	.10	.07	1.19	.10	.08	0.02	0.02	0.03	0.12	0.16	0.22	0.24	88.8	.08
Pickle Lake	99	100	79	99	12		.20	.16	0.65	.19	.12	0.05	0.05	0.09	0.18	0.24	0.43	0.48	72.8	.15
Simcoe	96	100	79	96	12		.25	.23	0.67	.27	.13	0.06	0.06	0.15	0.28	0.39	0.44	0.45	100.9	.25
APIOS-D																				
Forbes Twsp.	100	90	94	86	79	13	.03	.02	1.20	.04	.05	0.00	0.00	0.01	0.02	0.06	0.11	0.23	81.7	.03
Quetico Centre	100	84	98	93	78	12	.03	.03	1.17	.05	.05	0.00	0.00	0.01	0.03	0.06	0.10	0.26	73.4	.02
Whitman Creek	100	83	81	92	65	2	.07	.06	1.12	.11	.14	0.01	0.02	0.02	0.05	0.12	0.38	0.62	58.5	.04
APN																				
Chalk River	100	91	96	92	99	3	.22	.18	1.13	.38	.78	0.02	0.05	0.10	0.16	0.35	0.56	6.61	82.6	.18
ELA	100	91	92	88	69	5	.09	.09	0.94	.13	.12	0.02	0.02	0.05	0.09	0.16	0.24	0.79	69.0	.06
Long Point	100	93	84	94	51	5	.14	.10	1.10	.17	.19	0.02	0.02	0.06	0.11	0.23	0.40	1.17	83.0	.11
APIOS-C																				
Alvinston	100	97	78	92	12		.11	.09	0.88	.12	.09	0.02	0.02	0.04	0.11	0.20	0.29	0.31	84.9	.09
Bear Island	100	96	120	92	12		.05	.04	0.87	.06	.08	0.01	0.01	0.02	0.04	0.06	0.23	0.29	64.9	.03
Coldwater	100	100	76	100	13		.05	.05	0.65	.06	.04	0.01	0.02	0.03	0.04	0.07	0.14	0.14	92.3	.05
Dorset	100	100	87	100	13	2	.04	.03	1.15	.04	.03	0.00	0.01	0.01	0.04	0.07	0.09	0.10	103.2	.04
McKellar	100	86	77	77	10		.07	.07	0.98	.09	.08	0.01	0.01	0.03	0.07	0.15	0.26	0.27	93.4	.07
Nakina	100	98	78	91	12		.05	.05	0.69	.06	.04	0.01	0.02	0.03	0.05	0.07	0.15	0.17	63.5	.03
Ramsey	100	77	115	83	11		.04	.04	0.80	.05	.05	0.01	0.01	0.02	0.04	0.07	0.16	0.18	68.6	.03
Wilberforce	100	91	79	83	11	3	.04	.02	1.46	.04	.04	0.00	0.00	0.00	0.02	0.06	0.13	0.14	111.0	.05
Quebec																				
APN																				
Montmorency	100	91	91	76	114	19	.08	.07	1.11	.11	.11	0.02	0.02	0.03	0.07	0.17	0.28	0.58	123.6	.10
Saskatchewan																				
CANSAP																				
Cree Lake	100	100	77	100	12	1	.24	.20	1.35	.40	.44	0.02	0.03	0.10	0.18	0.75	1.26	1.39	53.3	.13

Magnesium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Concentration: Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	10%	25%	50%	75%	90%	Max	Total Precip cm	MG Dep g/m2
Alabama																				
UAPSP																				
Selma	100	100	93	97	147	18	.03	.02	0.85	.04	.04	0.00	0.00	0.01	0.02	0.05	0.08	0.29	235.8	.06
Selma-2	100	99	93	98	97	10	.02	.02	0.93	.04	.04	0.00	0.00	0.01	0.02	0.04	0.08	0.31	141.6	.04
Arizona																				
NADP																				
Oliver Knoll	100	79	93	83	28		.05	.07	1.08	.12	.13	0.01	0.02	0.02	0.09	0.14	0.38	0.48	35.5	.02
Organ Pipe Mon.	98	75	100	79	21		.06	.10	1.24	.19	.24	0.01	0.02	0.03	0.11	0.26	0.59	0.91	26.6	.02
Arkansas																				
NADP																				
Fayetteville	100	98	95	84	37	1	.02	.03	1.15	.07	.14	0.00	0.01	0.01	0.04	0.07	0.13	0.82	142.3	.03
California																				
NADP																				
Davis	100	96	99	87	19		.03	.03	0.83	.05	.08	0.01	0.01	0.02	0.03	0.04	0.13	0.34	83.0	.03
Hopland (Ukiah)	100	98	98	89	27		.05	.05	0.77	.07	.04	0.01	0.01	0.03	0.07	0.10	0.13	0.18	118.3	.06
Sequoia Nat. Park	100	86	92	83	30	1	.01	.02	1.34	.05	.07	0.00	0.01	0.01	0.02	0.07	0.14	0.31	203.1	.03
Tanbark Flat	97	81	94	86	29		.05	.10	1.49	.31	.56	0.01	0.01	0.04	0.08	0.37	1.19	2.67	95.6	.05
Colorado																				
NADP																				
Manitou	100	83	89	81	33		.04	.06	1.07	.11	.17	0.01	0.02	0.03	0.05	0.10	0.33	0.74	45.6	.02
Mesa Verde	100	92	92	83	36		.04	.05	1.38	.15	.36	0.01	0.01	0.02	0.06	0.15	0.25	2.18	64.9	.02
Pawnee	100	98	97	83	31		.03	.05	0.97	.07	.07	0.01	0.01	0.03	0.05	0.12	0.15	0.29	41.4	.01
Rocky Mt. Nat Park	100	94	95	79	40		.04	.04	0.87	.06	.05	0.01	0.01	0.03	0.04	0.10	0.16	0.17	36.8	.01
Sand Spring	100	97	89	94	44		.04	.06	1.03	.11	.18	0.01	0.02	0.03	0.05	0.10	0.26	0.99	37.2	.02
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	96	62	2	.15	.08	1.03	.12	.15	0.01	0.02	0.04	0.08	0.14	0.33	0.90	98.0	.15
Florida																				
NADP																				
Bradford Forest	100	95	86	89	41		.04	.06	0.99	.11	.16	0.01	0.02	0.03	0.06	0.11	0.27	0.80	150.4	.06
Everglades Nat. Pa	98	76	99	79	40		.09	.14	0.89	.21	.23	0.02	0.05	0.08	0.13	0.22	0.49	1.16	161.4	.15
Georgia																				
NADP																				
Georgia Station	100	99	98	91	44		.05	.04	0.90	.06	.07	0.01	0.01	0.02	0.04	0.06	0.16	0.33	137.4	.06
UAPSP																				
Uvalda	100	99	96	98	75	6	.02	.02	0.83	.03	.04	0.00	0.01	0.01	0.02	0.04	0.07	0.27	107.5	.02
Hawaii																				
NADP																				
Mauna Loa	100	97	95	92	36	3	.01	.01	1.13	.03	.03	0.00	0.00	0.01	0.01	0.03	0.08	0.15	117.6	.01
Illinois																				
NADP																				
Argonne	98	77	95	75	37		.06	.09	1.17	.18	.23	0.01	0.02	0.04	0.07	0.24	0.51	0.94	106.8	.07
Bondville	100	95	96	83	42	1	.03	.03	0.88	.05	.07	0.00	0.01	0.02	0.03	0.06	0.10	0.41	88.8	.02
Dixon Springs	100	100	90	92	46		.04	.06	1.07	.10	.14	0.01	0.01	0.03	0.06	0.10	0.26	0.85	152.7	.07
NIARC	100	99	94	81	41		.08	.10	1.08	.17	.21	0.01	0.02	0.04	0.10	0.21	0.40	0.90	95.4	.07
Salem	98	100	102	90	44		.03	.04	0.91	.05	.05	0.00	0.01	0.02	0.04	0.07	0.13	0.28	107.4	.03
Southern Ill U	100	100	99	92	46		.03	.04	0.92	.06	.06	0.00	0.01	0.02	0.04	0.07	0.16	0.24	130.2	.04
MAP3s/PCN																				
Illinois	100	98	99	94	77	8	.03	.04	0.93	.05	.05	0.01	0.01	0.03	0.04	0.07	0.10	0.27	90.5	.03

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration												Total Precip cm	MG Dep g/m2
							Wtd Mean mg/l	Geometric		Arithmetic		Percentiles mg/l								
								Mean mg/l	SD	Mean mg/l	SD mg/l	Min	10%	25%	50%	75%	90%	Max		
Indiana																				
NADP																				
Indiana Dunes	98	100	83	87	44		.07	.07	0.92	.11	.12	0.01	0.02	0.04	0.08	0.14	0.24	0.54	108.6	.08
UAPSP																				
Roanoke	100	96	95	94	87		.08	.05	1.29	.14	.38	0.01	0.01	0.02	0.05	0.11	0.28	3.05	108.7	.09
Rockport	100	93	94	96	97	10	.03	.03	0.82	.04	.04	0.00	0.00	0.01	0.02	0.05	0.09	0.19	115.2	.04
Kansas																				
UAPSP																				
Lancaster	100	97	91	94	84	7	.03	.03	0.91	.05	.09	0.00	0.01	0.01	0.03	0.06	0.09	0.83	114.5	.04
Kentucky																				
UAPSP																				
Morehead	100	99	98	95	113	16	.02	.02	0.86	.03	.06	0.00	0.00	0.01	0.02	0.03	0.06	0.40	124.0	.02
Maine																				
NADP																				
Caribou	100	92	90	87	43		.02	.03	1.08	.05	.07	0.00	0.01	0.02	0.03	0.07	0.16	0.36	94.6	.02
Greenville Station	100	91	86	92	48		.03	.03	0.86	.05	.05	0.01	0.01	0.02	0.03	0.05	0.11	0.20	85.6	.02
UAPSP																				
Winterport	100	94	99	93	86	13	.03	.02	0.89	.04	.05	0.00	0.00	0.01	0.02	0.04	0.07	0.35	81.8	.02
Massachusetts																				
NADP																				
East	91	93	91	84	40		.05	.06	0.91	.10	.19	0.01	0.02	0.03	0.06	0.10	0.18	1.24	96.1	.04
UAPSP																				
Turners Falls	100	99	92	96	75	16	.02	.02	0.88	.03	.04	0.00	0.00	0.01	0.02	0.04	0.08	0.19	101.8	.02
Michigan																				
NADP																				
Kellogg	98	82	92	75	37		.06	.07	0.86	.10	.07	0.01	0.03	0.03	0.08	0.14	0.23	0.25	85.2	.05
UAPSP																				
Gaylord	100	93	94	93	90	12	.03	.02	0.90	.03	.04	0.00	0.00	0.01	0.02	0.04	0.10	0.27	68.6	.02
Minnesota																				
NADP																				
Fernberg	100	88	90	83	43		.04	.05	0.93	.07	.07	0.01	0.01	0.03	0.04	0.09	0.19	0.28	79.0	.03
Lamberton	100	94	91	82	34		.06	.07	1.15	.18	.45	0.02	0.02	0.03	0.08	0.17	0.34	2.64	77.4	.05
Marcell	100	97	93	88	47		.04	.05	0.90	.07	.08	0.01	0.01	0.03	0.05	0.09	0.17	0.39	81.7	.03
Mississippi																				
NADP																				
Meridian	100	86	86	75	38		.04	.05	0.70	.07	.06	0.01	0.02	0.03	0.05	0.06	0.14	0.29	165.1	.07
UAPSP																				
Clinton	100	100	100	97	100	4	.02	.03	0.87	.04	.04	0.00	0.01	0.01	0.03	0.05	0.08	0.21	158.9	.04
Missouri																				
NADP																				
Ashland	100	99	97	90	43		.03	.04	0.98	.07	.09	0.00	0.01	0.02	0.05	0.09	0.14	0.45	125.2	.04
University Forest	100	90	95	81	43		.04	.06	1.11	.11	.15	0.00	0.02	0.02	0.05	0.12	0.24	0.72	135.8	.05
Montana																				
NADP																				
Glacier Nat Park	100	89	86	91	48		.02	.03	0.97	.05	.05	0.01	0.01	0.02	0.03	0.05	0.16	0.18	91.9	.02
Nebraska																				
NADP																				
Mead	100	94	100	81	34		.03	.05	0.92	.08	.08	0.01	0.02	0.03	0.05	0.10	0.23	0.34	95.6	.03
New Hampshire																				
NADP																				
Hubbard Brook	100	90	91	83	42		.03	.03	0.79	.04	.04	0.01	0.01	0.02	0.03	0.05	0.08	0.17	101.6	.03

Magnesium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration												Total Precip cm	MG Dep g/m2
							Wtd Mean mg/l	Geometric		Arithmetic		Percentiles mg/l								
								Mean mg/l	SD	Mean mg/l	SD mg/l	Min	10%	25%	50%	75%	90%	Max		
New York																				
NADP																				
Aurora	100	98	88	92	46		.04	.05	1.14	.11	.18	0.01	0.01	0.02	0.04	0.09	0.37	0.79	74.4	.03
Chautauqua	100	98	88	89	46		.04	.06	1.07	.11	.16	0.01	0.01	0.03	0.05	0.11	0.27	0.80	95.6	.04
Jasper	96	75	97	75	36		.03	.05	1.15	.09	.10	0.01	0.01	0.02	0.03	0.12	0.24	0.41	75.9	.02
Knobit	98	93	100	88	44		.03	.04	1.05	.09	.17	0.01	0.01	0.02	0.04	0.07	0.16	1.03	78.1	.03
Stilwell Lake	100	93	94	89	46		.03	.05	1.09	.09	.14	0.01	0.01	0.02	0.05	0.09	0.24	0.73	115.7	.04
MAP3s/PCN																				
Brookhaven	100	100	99	98	62	6	.09	.06	1.16	.09	.08	0.01	0.01	0.03	0.07	0.15	0.21	0.39	107.4	.10
Ithaca	100	96	96	99	79	20	.02	.02	1.10	.04	.05	0.01	0.01	0.01	0.02	0.05	0.08	0.32	93.4	.02
Whiteface	99	97	115	94	86	45	.01	.01	0.87	.02	.03	0.01	0.01	0.01	0.01	0.02	0.03	0.27	82.2	.01
North Carolina																				
NADP																				
Coweeta	100	86	97	87	46		.03	.03	0.92	.04	.05	0.01	0.01	0.02	0.02	0.06	0.13	0.26	182.5	.05
Finley (A)	100	78	94	77	39	1	.03	.04	1.02	.07	.08	0.00	0.01	0.02	0.04	0.07	0.15	0.44	117.7	.04
Lewiston	100	100	103	94	45		.05	.06	1.07	.11	.19	0.01	0.01	0.03	0.05	0.10	0.31	1.05	116.4	.06
Piedmont Station	100	99	96	89	46		.04	.04	1.14	.09	.16	0.01	0.01	0.02	0.04	0.07	0.27	0.79	109.2	.04
R Triangle Inst	100	94	101	83	40		.03	.04	0.97	.06	.08	0.01	0.01	0.02	0.04	0.08	0.16	0.43	139.4	.05
R Triangle Park	100	100	90	92	42		.03	.03	0.88	.04	.03	0.00	0.01	0.01	0.03	0.06	0.08	0.17	149.7	.04
UAPSP																				
Raleigh	100	97	94	93	87	17	.02	.02	0.80	.03	.03	0.00	0.00	0.01	0.02	0.03	0.06	0.19	114.7	.02
North Dakota																				
NADP																				
Teddy Roosevelt NP	100	83	88	76	36		.07	.07	0.86	.11	.11	0.01	0.02	0.04	0.08	0.11	0.31	0.51	54.2	.04
Ohio																				
NADP																				
Caldwell	100	90	99	91	43		.04	.06	1.00	.10	.12	0.01	0.01	0.03	0.06	0.12	0.19	0.61	96.2	.04
Delaware	100	98	102	92	47		.04	.07	1.22	.14	.22	0.01	0.01	0.03	0.05	0.15	0.35	0.97	81.5	.04
Wooster	100	88	98	83	43		.04	.06	1.02	.11	.18	0.01	0.02	0.03	0.04	0.11	0.26	1.02	87.7	.04
MAP3s/PCN																				
Oxford	100	98	109	95	72	16	.02	.02	0.96	.03	.02	0.01	0.01	0.01	0.03	0.04	0.07	0.09	99.0	.02
UAPSP																				
Zanesville	100	99	99	98	93	5	.03	.03	0.94	.05	.05	0.00	0.01	0.01	0.03	0.06	0.11	0.25	90.0	.03
Pennsylvania																				
NADP																				
Leading Ridge	100	100	90	98	50		.04	.05	1.03	.09	.13	0.01	0.01	0.02	0.04	0.11	0.18	0.61	104.1	.04
MAP3s/PCN																				
Penn State	99	98	116	95	80	13	.03	.03	1.05	.04	.04	0.01	0.01	0.01	0.03	0.06	0.11	0.16	85.1	.02
UAPSP																				
Scranton	100	94	97	92	88	16	.02	.02	0.86	.03	.04	0.00	0.00	0.01	0.02	0.03	0.07	0.26	75.1	.01
South Dakota																				
UAPSP																				
Brookings	100	90	105	97	53	6	.04	.04	1.07	.06	.08	0.00	0.00	0.01	0.03	0.08	0.18	0.36	61.9	.02
Brookings-2	100	89	104	98	51	3	.04	.03	0.99	.06	.07	0.00	0.01	0.02	0.04	0.07	0.12	0.39	61.2	.02
Tennessee																				
NADP																				
Elkmont	98	82	101	81	43	1	.02	.02	1.02	.04	.07	0.00	0.01	0.01	0.02	0.04	0.08	0.36	153.5	.03
Walker Branch	100	94	96	92	48		.03	.04	0.94	.07	.13	0.00	0.01	0.02	0.04	0.07	0.14	0.87	145.3	.04
MAP3s/PCN																				
Oak Ridge	100	100	100	99	62	13	.02	.02	0.83	.02	.02	0.01	0.01	0.01	0.02	0.03	0.05	0.12	148.1	.03
UAPSP																				
Alamo	100	99	88	99	47	3	.02	.03	1.00	.05	.11	0.00	0.01	0.01	0.03	0.05	0.07	0.75	120.7	.03

Magnesium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	10%	25%	50%	75%	90%	Max	Total Precip cm	MG Dep g/m2
Texas																				
NADP																				
Forest Seed Ctr	100	82	97	79	36		.05	.07	1.05	.12	.17	0.01	0.02	0.03	0.06	0.12	0.30	0.90	127.4	.06
K-Bar	98	85	91	79	23		.04	.04	1.03	.08	.14	0.01	0.01	0.02	0.03	0.07	0.27	0.62	37.5	.01
Victoria	100	99	100	85	33		.07	.12	1.33	.28	.41	0.02	0.02	0.04	0.08	0.34	1.07	1.60	84.0	.06
UAPSP																				
Marshall	100	85	101	96	68	1	.03	.03	0.92	.05	.05	0.00	0.01	0.02	0.03	0.07	0.10	0.23	103.0	.03
Vermont																				
NADP																				
Bennington	100	81	98	83	43		.03	.04	0.86	.07	.09	0.01	0.01	0.02	0.04	0.08	0.13	0.53	87.0	.03
UAPSP																				
Underhill Center	100	97	94	87	169	45	.01	.01	0.73	.02	.03	0.00	0.00	0.00	0.01	0.02	0.04	0.22	159.7	.02
Virginia																				
MAP3S/PCN																				
Virginia	98	100	100	97	53	21	.02	.01	1.11	.04	.11	0.01	0.01	0.01	0.01	0.03	0.06	0.83	89.7	.01
Washington																				
NADP																				
Olympic Nat. Park	100	81	98	89	45		.06	.06	1.18	.11	.11	0.00	0.01	0.02	0.07	0.15	0.30	0.51	366.5	.24
West Virginia																				
NADP																				
Parsons	100	100	92	96	50	1	.02	.03	1.01	.05	.07	0.00	0.01	0.02	0.03	0.05	0.09	0.45	151.6	.04
Wisconsin																				
NADP																				
Trout Lake	100	76	92	76	40		.04	.04	1.06	.09	.18	0.01	0.01	0.02	0.03	0.05	0.25	0.92	104.3	.04
Wyoming																				
NADP																				
Newcastle	100	95	89	87	42		.04	.06	0.87	.08	.06	0.01	0.02	0.03	0.05	0.12	0.18	0.26	46.6	.02
British Columbia																				
CANSAP																				
Kelowna	100	100	81	100	12	6	.02	.01	0.95	.02	.02	0.01	0.01	0.01	0.02	0.03	0.05	0.05	50.3	.01
Port Hardy	100	100	80	100	12		.18	.11	0.85	.16	.13	0.04	0.04	0.05	0.13	0.22	0.41	0.48	174.9	.32
Revelstoke	100	100	88	100	12	2	.02	.02	0.69	.02	.02	0.01	0.01	0.01	0.02	0.02	0.05	0.06	112.9	.02
Manitoba																				
CANSAP																				
Bissett	100	100	82	100	12		.08	.08	0.52	.09	.05	0.04	0.04	0.05	0.08	0.11	0.21	0.22	59.2	.05
Dauphin	92	100	92	92	11		.70	.64	1.21	1.16	1.26	0.09	0.11	0.21	0.82	2.20	3.52	3.60	50.7	.36
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	90	100	12		.04	.04	0.62	.05	.04	0.02	0.02	0.02	0.03	0.06	0.12	0.14	126.6	.05
Charlo	92	100	75	92	11		.05	.05	0.68	.06	.04	0.02	0.02	0.03	0.03	0.09	0.13	0.14	89.0	.04
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	97	100	12		.10	.05	1.11	.08	.08	0.01	0.01	0.02	0.05	0.13	0.25	0.27	127.8	.13
Shelburne	100	100	87	100	12		.18	.13	0.73	.16	.10	0.04	0.04	0.06	0.15	0.22	0.34	0.36	129.4	.23
Truro	99	88	82	91	11		.07	.06	0.78	.08	.07	0.02	0.02	0.03	0.06	0.11	0.23	0.25	101.8	.07
APN																				
Kejimkujik	100	97	102	88	118	26	.08	.05	1.49	.14	.38	0.01	0.01	0.01	0.06	0.15	0.26	3.90	126.2	.11
Ontario																				
CANSAP																				
Atikokan	100	100	80	100	12		.05	.06	0.52	.06	.04	0.02	0.02	0.04	0.05	0.08	0.14	0.16	82.2	.04
Dorset	100	100	89	100	12		.03	.03	0.46	.03	.02	0.02	0.02	0.02	0.03	0.05	0.06	0.06	113.6	.04
Kingston	100	100	81	100	12		.10	.09	0.74	.12	.10	0.03	0.04	0.05	0.07	0.15	0.33	0.35	101.6	.11

1982 Annual Summary

Magnesium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration: Wtd Mean mg/l	Concentration: Geometric Mean mg/l	Concentration: Geometric SD	Concentration: Arithmetic Mean mg/l	Concentration: Arithmetic SD mg/l	Percentiles mg/l: Min	Percentiles mg/l: 10%	Percentiles mg/l: 25%	Percentiles mg/l: 50%	Percentiles mg/l: 75%	Percentiles mg/l: 90%	Percentiles mg/l: Max	Total Precip cm	MG Dep g/m2
Peterborough	100	100	84	100	12		.06	.05	0.60	.06	.04	0.02	0.02	0.03	0.05	0.08	0.14	0.15	88.8	.05
Pickle Lake	99	100	79	99	12		.04	.04	0.34	.05	.01	0.02	0.02	0.03	0.05	0.06	0.06	0.06	72.8	.03
Simcoe	96	100	79	96	12		.11	.11	0.71	.15	.12	0.05	0.05	0.06	0.10	0.22	0.39	0.44	100.9	.11
APN																				
Chalk River	100	93	96	93	104	13	.05	.03	1.09	.08	.24	0.01	0.01	0.02	0.04	0.07	0.13	2.41	82.6	.04
ELA	100	92	93	91	78	10	.03	.03	0.98	.05	.05	0.01	0.01	0.02	0.03	0.06	0.13	0.35	69.0	.02
Long Point	100	94	84	95	55	2	.12	.10	1.22	.21	.34	0.01	0.02	0.04	0.10	0.24	0.45	2.04	83.0	.10
APIOS-C																				
Alvinston	100	91	79	77	10		.11	.09	0.88	.13	.12	0.03	0.03	0.04	0.07	0.26	0.34	0.35	84.9	.09
Coldwater	100	100	76	100	13		.04	.04	0.74	.05	.04	0.01	0.01	0.02	0.04	0.06	0.13	0.17	92.3	.04
Dorset	100	100	87	100	13		.03	.02	1.05	.03	.04	0.00	0.00	0.01	0.02	0.05	0.11	0.15	103.2	.03
McKellar	100	91	78	77	10		.03	.02	0.81	.03	.02	0.00	0.01	0.01	0.03	0.04	0.07	0.07	93.4	.03
Ramsey	100	100	103	100	13		.02	.02	0.91	.03	.04	0.00	0.00	0.01	0.02	0.04	0.10	0.14	68.6	.02
Quebec																				
APN																				
Montmorency	100	93	91	79	122	75	.01	.01	0.72	.01	.01	0.01	0.01	0.01	0.01	0.02	0.03	0.09	123.6	.01
Saskatchewan																				
CANSAP																				
Cree Lake	100	100	77	100	12		.03	.03	0.38	.04	.01	0.02	0.02	0.02	0.03	0.05	0.05	0.05	53.3	.02

1982 Annual Summary

Potassium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration												Total Precip cm	K Dep g/m2
							Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max		
Alabama																				
UAPSP																				
Selma	100	99	93	97	146	74	.03	.02	1.03	.05	.09	-0.02	0.00	0.01	0.03	0.05	0.11	0.82	235.8	.07
Selma-2	100	99	93	98	97	48	.03	.02	0.96	.04	.07	-0.02	0.00	0.01	0.03	0.05	0.08	0.46	141.6	.04
Arizona																				
NADP																				
Oliver Knoll	100	79	93	83	28	1	.03	.03	1.20	.05	.07	0.00	0.01	0.01	0.03	0.06	0.13	0.32	35.5	.01
Organ Pipe Mon.	98	75	100	79	21		.03	.05	1.08	.08	.09	0.01	0.01	0.02	0.05	0.13	0.28	0.33	26.6	.01
Arkansas																				
NADP																				
Fayetteville	100	98	95	84	37		.02	.04	1.01	.07	.13	0.00	0.01	0.02	0.03	0.05	0.14	0.78	142.3	.04
California																				
NADP																				
Davis	100	96	99	87	19		.03	.02	0.67	.03	.02	0.01	0.01	0.01	0.02	0.03	0.07	0.08	83.0	.02
Hopland (Ukiah)	100	98	98	89	27		.02	.03	0.76	.03	.02	0.01	0.01	0.01	0.03	0.05	0.07	0.08	118.3	.02
Sequoia Nat. Park	100	86	92	83	30	3	.02	.02	1.63	.08	.16	0.00	0.00	0.01	0.02	0.07	0.41	0.70	203.1	.03
Tanbark Flat	97	81	94	86	29		.04	.06	1.50	.17	.25	0.01	0.01	0.02	0.07	0.16	0.59	0.97	95.6	.04
Colorado																				
NADP																				
Manitou	100	83	89	81	33		.07	.04	0.97	.07	.11	0.01	0.01	0.02	0.03	0.07	0.16	0.60	45.6	.03
Mesa Verde	100	92	92	83	36	1	.02	.02	1.28	.05	.10	0.00	0.00	0.01	0.02	0.06	0.10	0.58	64.9	.01
Pawnee	100	98	97	83	31		.04	.04	1.11	.07	.08	0.01	0.01	0.02	0.04	0.10	0.20	0.34	41.4	.01
Rocky Mt. Nat Park	100	94	95	79	40		.05	.04	1.06	.08	.17	0.01	0.01	0.02	0.03	0.05	0.14	0.89	36.8	.02
Sand Spring	100	97	89	94	44	1	.02	.02	1.16	.05	.12	0.00	0.01	0.01	0.02	0.04	0.13	0.82	37.2	.01
Delaware																				
MAP3s/PCN																				
Lewes	100	99	98	96	62	29	.07	.04	1.11	.07	.10	0.01	0.02	0.03	0.04	0.09	0.19	0.47	98.0	.07
Florida																				
NADP																				
Bradford Forest	100	95	86	89	41		.05	.04	0.82	.07	.10	0.01	0.02	0.02	0.05	0.07	0.12	0.61	150.4	.08
Everglades Nat. Pa	98	76	99	79	40		.07	.07	0.96	.11	.13	0.01	0.02	0.04	0.05	0.14	0.23	0.72	161.4	.11
Georgia																				
NADP																				
Georgia Station	100	99	98	91	44		.05	.03	0.94	.05	.08	0.01	0.01	0.01	0.03	0.05	0.13	0.49	137.4	.06
UAPSP																				
Uvalda	100	99	96	98	75	41	.02	.02	0.93	.04	.04	-0.03	0.00	0.01	0.02	0.05	0.08	0.20	107.5	.02
Hawaii																				
NADP																				
Mauna Loa	100	97	95	92	36	11	.00	.01	1.31	.03	.08	0.00	0.00	0.00	0.01	0.01	0.02	0.45	117.6	.01
Illinois																				
NADP																				
Argonne	98	77	95	75	37		.03	.03	0.73	.04	.04	0.01	0.01	0.02	0.03	0.05	0.10	0.18	106.8	.03
Bondville	100	95	96	83	42	1	.03	.03	0.85	.05	.06	0.01	0.01	0.02	0.03	0.04	0.10	0.35	88.8	.03
Dixon Springs	100	100	90	92	46	1	.05	.04	1.05	.06	.07	0.00	0.01	0.02	0.04	0.07	0.14	0.37	152.7	.08
NIARC	100	99	94	81	41		.05	.04	1.06	.07	.09	0.00	0.01	0.02	0.03	0.09	0.21	0.45	95.4	.05
Salem	98	100	102	90	44		.03	.03	1.03	.06	.08	0.00	0.01	0.01	0.03	0.07	0.15	0.40	107.4	.03
Southern Ill U	100	100	99	92	46		.03	.04	0.93	.06	.07	0.00	0.01	0.02	0.03	0.06	0.12	0.37	130.2	.04
MAP3s/PCN																				
Illinois	100	98	99	94	77	60	.03	.02	0.78	.03	.05	0.02	0.02	0.04	0.04	0.04	0.08	0.34	90.5	.03

Potassium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration												Total Precip cm	K Dep g/m2
								Geometric		Arithmetic		Percentiles mg/1								
							Wtd Mean mg/1	Mean mg/1	SD	Mean mg/1	SD mg/1	Min	10%	25%	50%	75%	90%	Max		
Indiana																				
NADP																				
Indiana Dunes	98	100	83	87	44		.02	.03	0.75	.03	.04	0.01	0.01	0.02	0.03	0.04	0.07	0.22	108.6	.03
UAPSP																				
Roanoke	100	96	95	94	87	44	.04	.03	1.13	.06	.19	-0.02	0.00	0.01	0.03	0.06	0.11	1.68	108.7	.04
Rockport	100	91	95	96	96	52	.05	.02	1.04	.05	.13	-0.04	0.00	0.01	0.03	0.05	0.09	1.17	115.2	.05
Kansas																				
UAPSP																				
Lancaster	100	96	90	94	83	41	.03	.03	1.05	.05	.10	-0.04	0.00	0.01	0.03	0.06	0.11	0.78	114.5	.03
Kentucky																				
UAPSP																				
Morehead	100	99	98	95	113	71	.02	.02	1.05	.05	.16	-0.02	0.00	0.01	0.02	0.04	0.08	1.44	124.0	.03
Maine																				
NADP																				
Caribou	100	92	90	87	43		.02	.02	0.93	.04	.10	0.00	0.01	0.01	0.02	0.03	0.06	0.68	94.6	.02
Greenville Station	100	91	86	92	48	1	.03	.02	0.96	.03	.04	0.00	0.01	0.01	0.02	0.03	0.08	0.23	85.6	.02
UAPSP																				
Winterport	100	94	99	93	86	60	.01	.02	0.79	.02	.03	-0.02	-0.01	0.01	0.01	0.03	0.05	0.17	81.8	.01
Massachusetts																				
NADP																				
East	91	93	91	84	40	1	.02	.02	0.79	.02	.01	0.00	0.01	0.01	0.02	0.03	0.04	0.06	96.1	.02
UAPSP																				
Turners Falls	100	99	92	96	74	52	.01	.02	0.90	.04	.21	-0.02	-0.01	0.00	0.02	0.03	0.05	1.78	101.8	.01
Michigan																				
NADP																				
Kellogg	98	82	92	75	37		.03	.03	0.62	.03	.02	0.01	0.01	0.02	0.02	0.05	0.07	0.08	85.2	.02
UAPSP																				
Gaylord	100	93	94	93	90	58	.02	.02	0.78	.03	.03	-0.01	0.00	0.01	0.02	0.03	0.05	0.17	68.6	.01
Minnesota																				
NADP																				
Fernberg	100	88	90	83	43	1	.03	.03	0.83	.04	.03	0.00	0.01	0.02	0.03	0.05	0.09	0.11	79.0	.02
Lamberton	100	94	91	82	34		.05	.06	1.12	.12	.22	0.01	0.01	0.03	0.05	0.13	0.31	1.25	77.4	.04
Marcell	100	97	93	88	47		.04	.04	0.80	.05	.05	0.01	0.02	0.02	0.04	0.06	0.13	0.24	81.7	.04
Mississippi																				
NADP																				
Meridian	100	86	86	75	38		.07	.05	0.73	.07	.05	0.01	0.02	0.03	0.05	0.09	0.12	0.28	165.1	.11
UAPSP																				
Clinton	100	100	100	97	101	49	.02	.02	0.97	.04	.05	-0.02	0.00	0.01	0.03	0.05	0.08	0.28	158.9	.03
Missouri																				
NADP																				
Ashland	100	99	97	90	43		.03	.04	0.84	.05	.04	0.01	0.01	0.02	0.04	0.07	0.12	0.17	125.2	.04
University Forest	100	90	95	81	43		.04	.05	1.06	.09	.15	0.00	0.01	0.02	0.04	0.08	0.23	0.96	135.8	.05
Montana																				
NADP																				
Glacier Nat Park	100	89	86	91	48	3	.02	.02	1.17	.04	.04	0.00	0.01	0.01	0.03	0.05	0.09	0.19	91.9	.02
Nebraska																				
NADP																				
Mead	100	94	100	81	34		.05	.07	0.98	.11	.15	0.01	0.02	0.03	0.06	0.13	0.24	0.72	95.6	.04
New Hampshire																				
NADP																				
Hubbard Brook	100	90	91	83	42	1	.02	.02	0.78	.02	.02	0.00	0.01	0.01	0.01	0.02	0.05	0.10	101.6	.02

Potassium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	K Dep g/m2
New York																				
NADP																				
Aurora	100	98	88	92	46		.03	.03	1.03	.05	.07	0.00	0.01	0.01	0.02	0.05	0.13	0.32	74.4	.02
Chautauqua	100	98	88	89	46		.03	.03	1.01	.06	.07	0.00	0.01	0.01	0.03	0.06	0.17	0.33	95.6	.03
Jasper	96	75	97	75	36		.01	.02	1.01	.04	.08	0.00	0.01	0.01	0.02	0.03	0.07	0.46	75.9	.01
Knobit	98	93	100	88	44	2	.02	.02	0.97	.03	.06	0.00	0.01	0.01	0.02	0.03	0.05	0.38	78.1	.01
Stilwell Lake	100	93	94	89	46	1	.01	.02	0.84	.03	.03	0.00	0.01	0.01	0.02	0.03	0.05	0.17	115.7	.02
MAP3s/PCN																				
Brookhaven	100	100	99	98	62	37	.03	.03	1.02	.06	.09	0.02	0.02	0.02	0.04	0.08	0.12	0.47	107.4	.04
Ithaca	100	99	97	99	80	64	.02	.02	0.72	.03	.04	0.02	0.02	0.02	0.04	0.04	0.08	0.33	93.4	.02
Whiteface	99	97	115	95	87	73	.02	.02	0.80	.03	.04	0.02	0.02	0.02	0.04	0.05	0.09	0.37	82.2	.02
North Carolina																				
NADP																				
Coweeta	100	86	97	87	46		.02	.02	0.87	.03	.03	0.00	0.01	0.01	0.02	0.04	0.08	0.16	182.5	.04
Finley (A)	100	78	94	77	39		.02	.03	0.82	.04	.05	0.01	0.01	0.02	0.02	0.05	0.07	0.32	117.7	.03
Lewiston	100	100	103	94	45		.04	.03	0.93	.06	.10	0.01	0.01	0.02	0.03	0.05	0.16	0.50	116.4	.05
Piedmont Station	100	99	96	89	46	1	.04	.04	1.02	.06	.08	0.00	0.01	0.02	0.03	0.06	0.17	0.34	109.2	.04
R Triangle Inst	100	94	101	83	40		.08	.04	1.25	.11	.21	0.01	0.01	0.02	0.03	0.10	0.23	1.22	139.4	.11
R Triangle Park	100	100	90	92	42		.02	.02	0.69	.03	.02	0.01	0.01	0.01	0.02	0.03	0.05	0.11	149.7	.03
UAPSP																				
Raleigh	100	97	94	93	87	61	.02	.02	0.78	.02	.03	-0.02	0.00	0.01	0.01	0.03	0.06	0.22	114.7	.02
North Dakota																				
NADP																				
Teddy Roosevelt NP	100	83	88	76	36	1	.06	.03	1.00	.05	.08	0.01	0.01	0.01	0.04	0.06	0.11	0.47	54.2	.03
Ohio																				
NADP																				
Caldwell	100	90	99	91	43		.02	.03	0.86	.04	.05	0.01	0.01	0.01	0.02	0.04	0.09	0.24	96.2	.02
Delaware	100	98	102	92	47		.03	.03	1.00	.05	.07	0.01	0.01	0.01	0.02	0.06	0.13	0.36	81.5	.02
Wooster	100	88	98	83	43		.02	.03	0.83	.04	.04	0.00	0.01	0.02	0.03	0.04	0.08	0.22	87.7	.02
MAP3s/PCN																				
Oxford	100	98	109	94	71	57	.03	.02	0.84	.04	.08	0.02	0.02	0.04	0.04	0.04	0.07	0.47	99.0	.03
UAPSP																				
Zanesville	100	99	99	98	93	46	.03	.02	0.87	.03	.03	-0.02	0.00	0.01	0.03	0.05	0.07	0.19	90.0	.02
Pennsylvania																				
NADP																				
Leading Ridge	100	100	90	98	50		.03	.04	0.95	.06	.06	0.01	0.01	0.02	0.04	0.08	0.16	0.32	104.1	.04
MAP3s/PCN																				
Penn State	99	98	116	95	80	46	.04	.03	0.98	.06	.11	0.02	0.02	0.04	0.04	0.06	0.13	0.63	85.1	.04
UAPSP																				
Scranton	100	94	97	92	88	57	.02	.02	0.97	.03	.07	-0.02	0.00	0.01	0.02	0.04	0.09	0.49	75.1	.01
South Dakota																				
UAPSP																				
Brookings	100	90	105	97	53	26	.04	.03	1.11	.06	.12	-0.02	0.00	0.01	0.03	0.06	0.12	0.87	61.9	.02
Brookings-2	100	89	104	98	51	27	.05	.03	1.10	.05	.07	-0.03	0.00	0.01	0.02	0.06	0.14	0.42	61.2	.03
Tennessee																				
NADP																				
Elkmont	98	82	101	81	43		.03	.03	1.01	.05	.08	0.00	0.01	0.01	0.02	0.05	0.13	0.50	153.5	.05
Walker Branch	100	94	96	92	48		.02	.02	0.77	.03	.05	0.01	0.01	0.02	0.03	0.03	0.06	0.31	145.3	.03
MAP3s/PCN																				
Oak Ridge	100	100	100	99	62	48	.02	.02	0.63	.03	.03	0.02	0.02	0.04	0.04	0.04	0.06	0.23	148.1	.04
UAPSP																				
Alamo	100	99	88	99	47	22	.05	.03	1.26	.15	.71	-0.02	0.00	0.01	0.03	0.06	0.09	4.83	120.7	.06

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	10%	25%	50%	75%	90%	Max	Total Precip cm	K Dep g/m2
Texas																				
NADP																				
Forest Seed Ctr	100	82	97	79	36		.05	.04	0.86	.06	.07	0.01	0.02	0.03	0.04	0.07	0.16	0.33	127.4	.06
K-Bar	98	85	91	79	23		.06	.05	0.96	.09	.13	0.01	0.01	0.03	0.05	0.09	0.15	0.62	37.5	.02
Victoria	100	99	100	85	33		.05	.07	1.20	.14	.21	0.01	0.01	0.02	0.06	0.14	0.43	1.09	84.0	.04
UAPSP																				
Marshall	100	85	101	96	68	31	.04	.03	1.18	.07	.13	-0.03	0.01	0.02	0.03	0.07	0.13	0.71	103.0	.04
Vermont																				
NADP																				
Bennington	100	81	98	83	43	1	.03	.02	0.91	.03	.04	0.00	0.01	0.01	0.02	0.03	0.07	0.20	87.0	.02
UAPSP																				
Underhill Center	100	94	94	85	165	119	.02	.02	0.80	.03	.05	-0.02	0.00	0.01	0.02	0.03	0.05	0.37	159.7	.03
Virginia																				
MAP3s/PCN																				
Virginia	98	100	100	97	53	41	.02	.02	0.84	.03	.05	0.02	0.02	0.02	0.04	0.04	0.08	0.36	89.7	.02
Washington																				
NADP																				
Olympic Nat. Park	100	81	98	89	45	1	.02	.03	1.22	.07	.16	0.00	0.01	0.01	0.03	0.06	0.12	1.07	366.5	.09
West Virginia																				
NADP																				
Parsons	100	100	92	96	50		.02	.03	0.77	.04	.03	0.01	0.01	0.02	0.03	0.04	0.07	0.16	151.6	.04
Wisconsin																				
NADP																				
Trout Lake	100	76	92	76	40		.03	.02	0.82	.04	.05	0.01	0.01	0.01	0.02	0.03	0.10	0.24	104.3	.03
Wyoming																				
NADP																				
Newcastle	100	95	89	87	42		.07	.03	1.17	.08	.19	0.00	0.01	0.01	0.03	0.05	0.17	1.18	46.6	.03
British Columbia																				
CANSAP																				
Kelowna	100	100	81	100	12	5	.04	.03	0.86	.04	.03	0.02	0.02	0.02	0.04	0.05	0.08	0.08	50.3	.02
Port Hardy	100	100	80	100	12	2	.10	.06	1.28	.14	.24	0.02	0.02	0.02	0.07	0.14	0.67	0.86	174.9	.18
Revelstoke	100	100	88	100	12		.11	.10	0.54	.11	.06	0.03	0.04	0.07	0.10	0.14	0.25	0.28	112.9	.12
Manitoba																				
CANSAP																				
Bissett	100	100	82	100	12	4	.04	.03	0.88	.04	.04	0.02	0.02	0.02	0.04	0.06	0.11	0.13	59.2	.02
Dauphin	92	98	93	84	10		.24	.20	1.27	.44	.63	0.04	0.04	0.08	0.13	0.67	1.81	1.87	50.7	.12
New Brunswick																				
CANSAP																				
Acadia Fes	100	100	90	100	12	1	.04	.03	0.67	.04	.04	0.02	0.02	0.02	0.03	0.04	0.12	0.14	126.6	.05
Charlo	92	100	75	92	11		.26	.21	0.89	.32	.41	0.04	0.05	0.14	0.17	0.32	1.29	1.52	89.0	.23
Nova Scotia																				
CANSAP																				
Kejimkujik	100	100	97	100	12	4	.04	.03	0.79	.04	.03	0.02	0.02	0.02	0.03	0.05	0.09	0.10	127.8	.05
Shelburne	100	100	87	100	12	1	.09	.07	0.74	.08	.06	0.02	0.03	0.05	0.08	0.10	0.20	0.23	129.4	.12
Truro	99	88	82	91	11	3	.05	.04	0.94	.05	.05	0.02	0.02	0.02	0.03	0.09	0.15	0.16	101.8	.05
APN																				
Kejimkujik	100	96	102	85	107	10	.08	.07	1.06	.14	.26	0.02	0.02	0.04	0.07	0.13	0.25	2.11	126.2	.10
Ontario																				
CANSAP																				
Atikokan	100	100	80	100	12		.12	.14	0.77	.18	.15	0.04	0.05	0.08	0.12	0.22	0.50	0.52	82.2	.10
Dorset	100	100	89	100	12	1	.03	.03	0.42	.04	.01	0.02	0.02	0.03	0.03	0.04	0.05	0.05	113.6	.04
Kingston	100	100	81	100	12		.13	.07	0.80	.12	.21	0.04	0.04	0.04	0.06	0.09	0.58	0.78	101.6	.13

Potassium

State Network Site Name	% PCL	% TP	% Col Eff	% VSL	N	N BDL	Concentration Wtd Mean mg/l	Concentration Geometric Mean mg/l	Concentration Geometric SD	Concentration Arithmetic Mean mg/l	Concentration Arithmetic SD mg/l	Percentiles mg/l Min	Percentiles mg/l 10%	Percentiles mg/l 25%	Percentiles mg/l 50%	Percentiles mg/l 75%	Percentiles mg/l 90%	Percentiles mg/l Max	Total Precip cm	K Dep g/m2
Peterborough	100	100	84	100	12	2	.05	.04	0.79	.05	.04	0.02	0.02	0.02	0.04	0.07	0.12	0.12	88.8	.04
Pickle Lake	99	100	79	99	12	1	.08	.06	0.79	.08	.05	0.02	0.02	0.04	0.07	0.11	0.17	0.18	72.8	.06
Simcoe	96	100	79	96	12	1	.11	.08	1.05	.13	.15	0.02	0.02	0.04	0.07	0.17	0.47	0.52	100.9	.11
APIOS-D																				
Forbes Twsp.	100	92	94	87	82	22	.03	.02	1.26	.04	.06	0.00	0.00	0.01	0.02	0.05	0.09	0.33	81.7	.02
Quetico Centre	100	86	98	94	82	10	.04	.03	1.14	.06	.08	0.00	0.01	0.01	0.03	0.06	0.16	0.42	73.4	.03
Whitman Creek	100	83	84	92	66	4	.04	.03	0.88	.05	.05	0.00	0.01	0.03	0.03	0.06	0.09	0.32	58.5	.02
APN																				
Chalk River	100	91	96	92	99	2	.12	.11	0.91	.17	.20	0.02	0.03	0.06	0.10	0.17	0.43	1.33	82.6	.10
ELA	100	91	92	88	69	6	.06	.06	0.80	.08	.06	0.02	0.02	0.04	0.06	0.09	0.15	0.33	69.0	.04
Long Point	100	93	84	94	51	11	.09	.05	1.29	.11	.19	0.01	0.01	0.02	0.05	0.12	0.21	1.13	83.0	.07
APIOS-C																				
Alvinston	100	97	78	92	12		.12	.07	1.19	.14	.18	0.01	0.01	0.04	0.07	0.18	0.53	0.63	84.9	.10
Bear Island	100	89	122	85	11	1	.04	.04	1.28	.06	.05	0.00	0.00	0.02	0.06	0.08	0.13	0.13	64.9	.03
Coldwater	100	100	76	100	13	1	.05	.03	1.30	.07	.08	0.00	0.01	0.01	0.04	0.09	0.22	0.24	92.3	.05
Dorset	100	100	87	100	13	3	.02	.02	1.06	.03	.03	0.00	0.01	0.01	0.01	0.03	0.10	0.11	103.2	.02
Nakina	100	98	78	91	12		.05	.04	0.64	.05	.03	0.01	0.02	0.02	0.04	0.07	0.10	0.11	63.5	.03
Ramsey	100	93	107	93	12	1	.04	.04	0.89	.05	.05	0.01	0.01	0.02	0.04	0.06	0.15	0.15	68.6	.03
Quebec																				
APN																				
Montmorency	100	91	91	76	114	77	.02	.02	0.70	.02	.03	0.01	0.01	0.02	0.02	0.02	0.04	0.23	123.6	.02
Saskatchewan																				
CANSAP																				
Cree Lake	100	100	77	100	12		.15	.13	1.17	.25	.33	0.03	0.03	0.05	0.10	0.31	0.98	1.14	53.3	.08